Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070218\
Data File : VL032191.D
Acq On : 2 Jul 2018 21:08
Operator : SY/AP
Sample : J3753-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** MID

Quant Time: Jul 03 05:05:06 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jun 29 22:27:58 2018
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1) Bromochloromethane | 5.85 | 49 | 1405494 | 10.00 | ppbv | | 0.00 |
| 33) 1,4-Difluorobenzene | 7.39 | 114 | 3722379 | 10.00 | ppbv | | 0.00 |
| 55) Chlorobenzene-d5 | 12.34 | 117 | 3275773 | 10.00 | ppbv | | -0.02 |
| **System Monitoring Compounds** | | | | | | | |
| 68) 1-Bromo-4-Fluorobenzene | 14.68 | 95 | 2416176 | 9.65 | ppbv | | -0.02 |
| Spiked Amount 10.000 | Range 65 - 135 | | Recovery = 96.50% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 3.13 | 85 | 36943 | 0.200 | ppbv | | 90 |
| 3) Chlorodifluoromethane | 3.07 | 51 | 113948 | 0.664 | ppbv | # | 88 |
| 4) Chloromethane | 3.22 | 50 | 23144 | 0.252 | ppbv | | 97 |
| 7) Chloroethane | 3.66 | 64 | 44755 | 1.367 | ppbv | # | 87 |
| 9) Propene | 3.10 | 41 | 142298 | 1.778 | ppbv | | 92 |
| 10) Heptane | 8.34 | 43 | 238194 | 1.021 | ppbv | | 99 |
| 11) Trichlorofluoromethane | 4.07 | 101 | 69423 | 0.347 | ppbv | | 99 |
| 12) 1,1,2-Trichlorotrifluoroet | 4.63 | 101 | 254943 | 1.912 | ppbv | | 91 |
| 13) Ethanol | 4.13 | 45 | 2856660 | 117.733 | ppbv | # | 38 |
| 15) Acetone | 3.97 | 43 | 6754964 | 41.103 | ppbv | | 99 |
| 16) 1,3-Butadiene | 3.40 | 39 | 149921 | 1.912 | ppbv | # | 7 |
| 17) tert-Butyl alcohol | 4.46 | 59 | 877960 | 8.390 | ppbv | | 97 |
| 18) 1,1-Dichloroethene | 4.42 | 96 | 101360 | 1.589 | ppbv | | 98 |
| 19) Isopropyl Alcohol | 4.13 | 45 | 2528284 | 18.516 | ppbv | # | 45 |
| 20) Methylene Chloride | 4.49 | 84 | 98992 | 1.648 | ppbv | | 97 |
| 21) Allyl Chloride | 4.46 | 41 | 340057 | 3.030 | ppbv | # | 66 |
| 22) trans-1,2-Dichloroethene | 5.04 | 96 | 83066 | 1.246 | ppbv | | 97 |
| 23) Vinyl Acetate | 5.23 | 43 | 498544 | 1.673 | ppbv | # | 69 |
| 24) 1,1-Dichloroethane | 5.17 | 63 | 2148837 | 11.255 | ppbv | | 98 |
| 25) Ethyl Acetate | 5.86 | 43 | 370191 | 1.089 | ppbv | # | 88 |
| 26) Hexane | 5.86 | 57 | 241184 | 1.540 | ppbv | # | 77 |
| 29) Chloroform | 5.94 | 83 | 20169 | 0.088 | ppbv | | 97 |
| 30) Cyclohexane | 7.34 | 84 | 89183 | 0.604 | ppbv | | 97 |
| 31) cis-1,2-Dichloroethene | 5.73 | 61 | 16396 | 0.105 | ppbv | # | 85 |
| 32) 1,1,1-Trichloroethane | 6.71 | 97 | 14654801 | 61.337 | ppbv | | 93 |
| 34) 2-Butanone | 5.41 | 43 | 1387588 | 5.873 | ppbv | | 100 |
| 36) Benzene | 7.10 | 78 | 166997 | 0.464 | ppbv | | 97 |
| 37) 1,2-Dichloroethane | 6.71 | 62 | 1170007 | 6.518 | ppbv | # | 1 |
| 39) 1,2-Dichloropropane | 7.39 | 63 | 989321 | 6.963 | ppbv | # | 27 |
| 41) Tetrahydrofuran | 6.24 | 42 | 48763 | 0.344 | ppbv | # | 64 |
| 44) 2,2,4-Trimethylpentane | 8.09 | 57 | 1463609 | 2.322 | ppbv | | 96 |
| 50) 4-Methyl-2-Pentanone | 8.97 | 43 | 223898 | 0.579 | ppbv | | 99 |
| 51) 2-Hexanone | 10.37 | 43 | 20164 | 0.063 | ppbv | # | 27 |
| 52) Tetrachloroethene | 11.47 | 164 | 9115 | 0.070 | ppbv | # | 93 |
| 53) Toluene | 10.04 | 91 | 1845948 | 4.239 | ppbv | | 100 |
| 58) Ethyl Benzene | 12.97 | 91 | 601334 | 1.139 | ppbv | | 93 |
| 59) m/p-Xylene | 13.22 | 91 | 1770188 | 4.183 | ppbv | | 97 |
| 60) o-Xylene | 13.95 | 91 | 712877 | 1.689 | ppbv | | 97 |
| 61) Styrene | 13.79 | 104 | 46389 | 0.134 | ppbv | # | 88 |
| 62) Isopropylbenzene | 14.93 | 105 | 22439 | 0.035 | ppbv | # | 39 |
| 64) n-propylbenzene | 15.82 | 120 | 36778 | 0.219 | ppbv | # | 65 |

Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070218\
Data File : VL032191.D
Acq On : 2 Jul 2018 21:08
Operator : SY/AP
Sample : J3753-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** MID

Quant Time: Jul 03 05:05:06 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jun 29 22:27:58 2018
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 65) tert-Butylbenzene | 17.02 | 119 | 38505 | 0.068 | ppbv | # | 1 |
| 66) Benzyl Chloride | 17.02 | 91 | 90147 | 0.256 | ppbv | # | 63 |
| 69) p-Isopropyltoluene | 17.92 | 119 | 1590043 | 2.374 | ppbv | | 96 |
| 71) 2-Chlorotoluene | 15.28 | 91 | 35427 | 0.071 | ppbv | | 74 |
| 72) 4-Ethyltoluene | 16.10 | 105 | 237253 | 0.435 | ppbv | # | 94 |
| 73) 1,3,5-Trimethylbenzene | 16.26 | 105 | 192788 | 0.375 | ppbv | | 98 |
| 74) 1,2,4-Trimethylbenzene | 17.03 | 105 | 818725 | 1.580 | ppbv | # | 71 |
| 75) 1,3-Dichlorobenzene | 17.27 | 146 | 512110 | 1.737 | ppbv | # | 25 |
| 76) 1,4-Dichlorobenzene | 17.27 | 146 | 512110 | 1.713 | ppbv | # | 25 |
| 79) Naphthalene | 22.53 | 128 | 61592 | 0.131 | ppbv | # | 91 |
| 80) Naphthalene,2-methyl- | 25.19 | 142 | 51005 | 0.300 | ppbv | # | 93 |

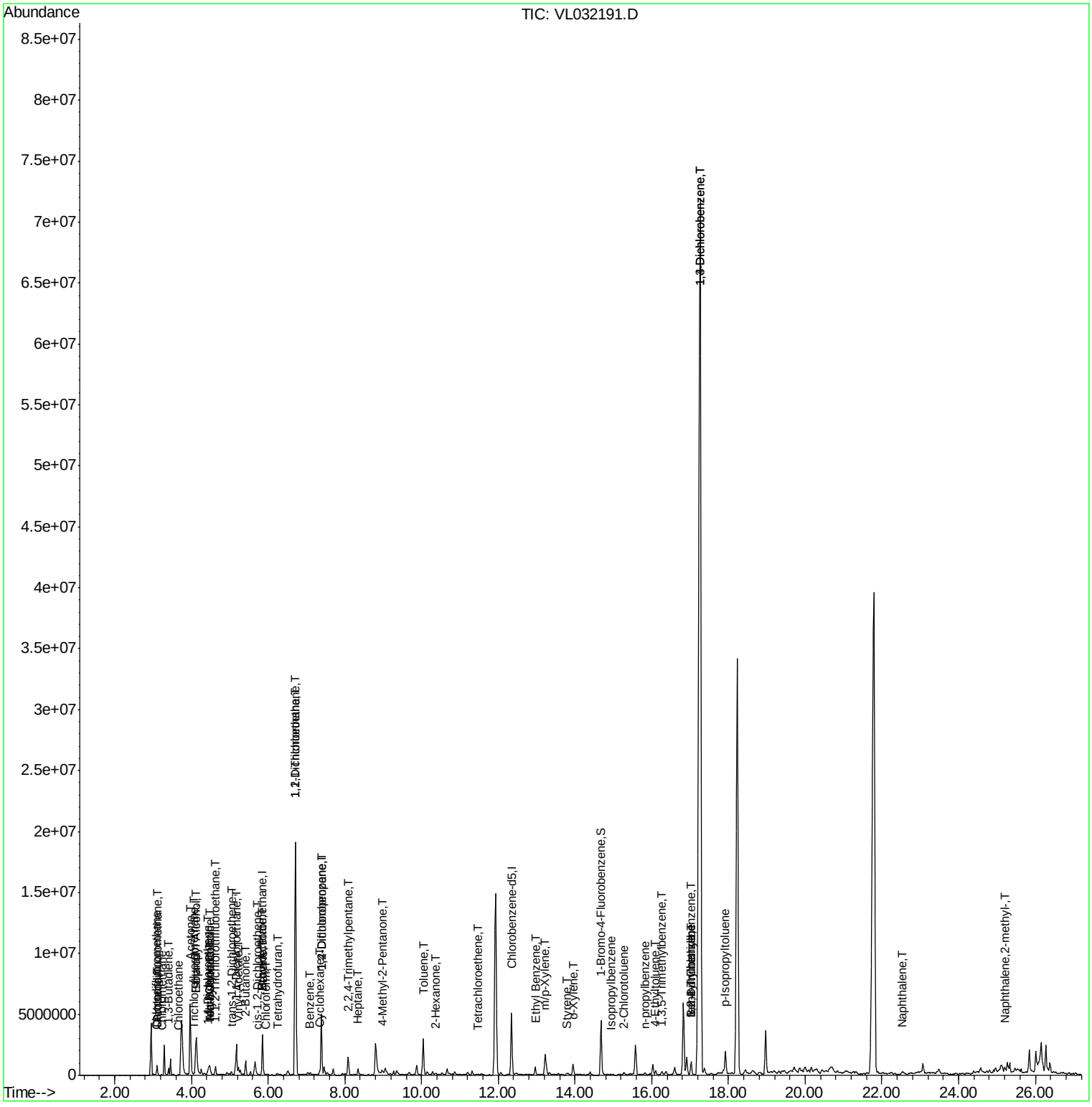
(#) = qualifier out of range (m) = manual integration (+) = signals summed

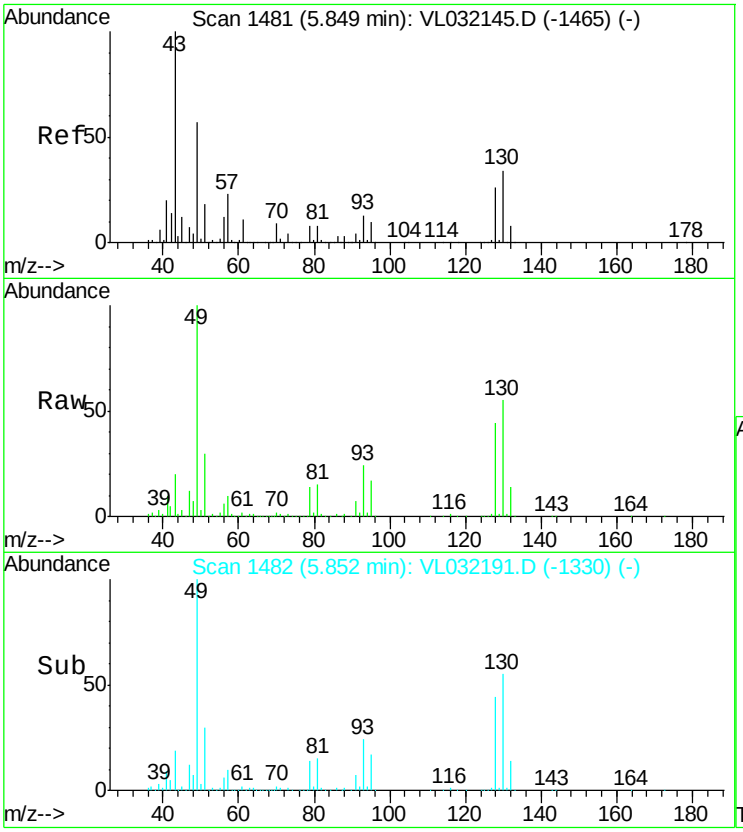
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070218\
Data File : VL032191.D
Acq On : 2 Jul 2018 21:08
Operator : SY/AP
Sample : J3753-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_L
**ClientSampleId :** MID

Quant Time: Jul 03 05:05:06 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jun 29 22:27:58 2018
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration



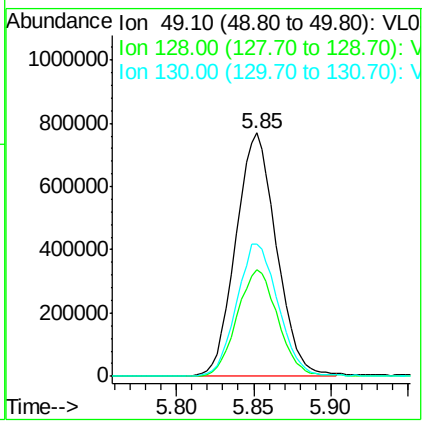


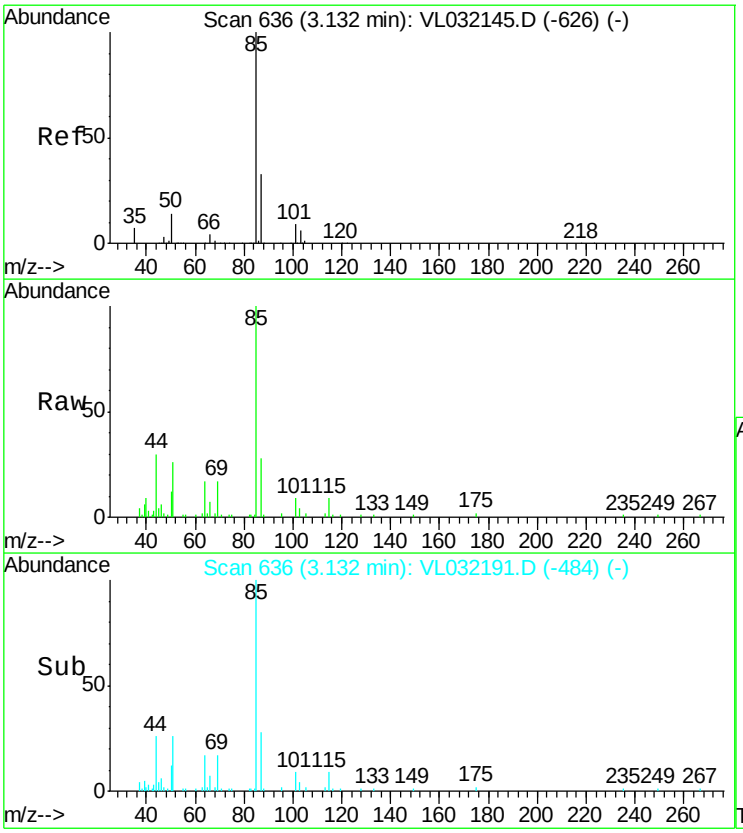

#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 49 Resp: 1405494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 128 | 44.4 | 23.4 | 70.0 |
| 130 | 56.0 | 30.3 | 90.9 |

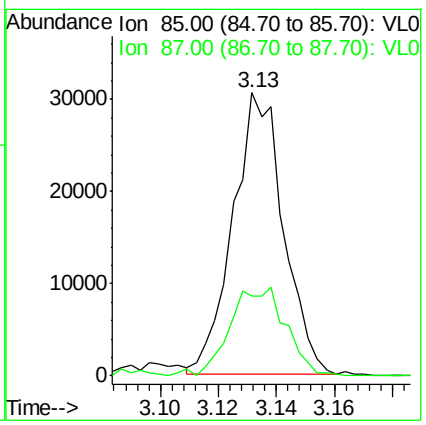


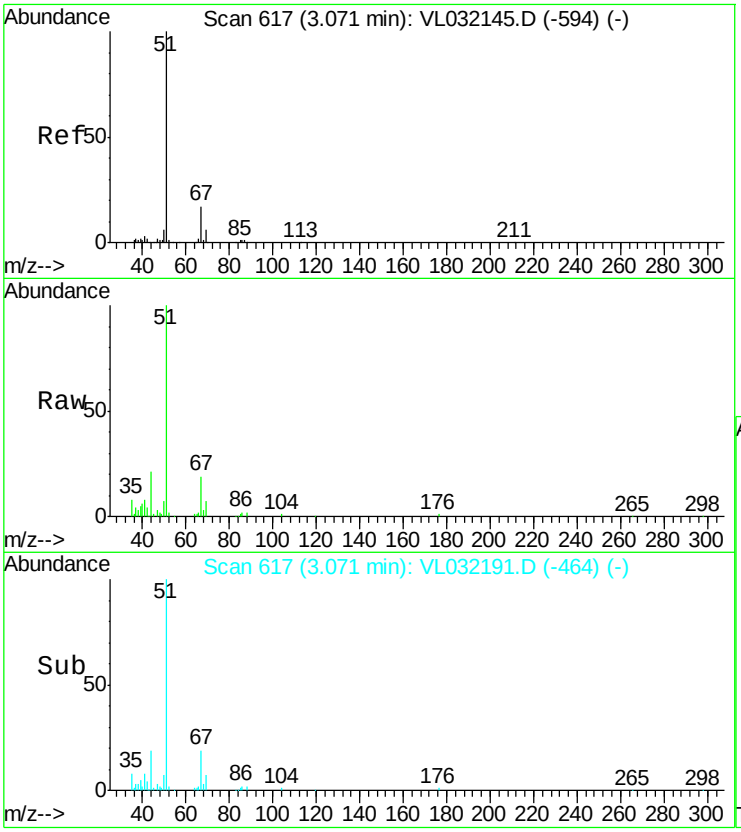




#2
Dichlorodifluoromethane
Concen: 0.200 ppbv
RT: 3.13 min Scan# 636
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 85 Resp: 36943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 27.7 | 26.7 | 40.1 |



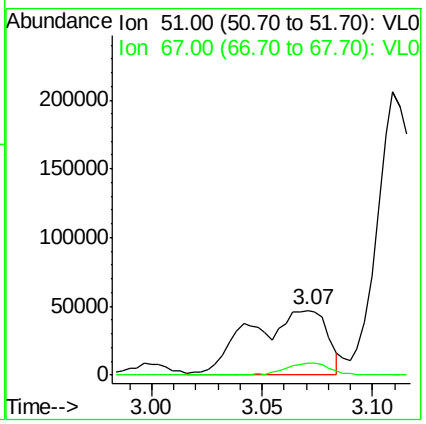


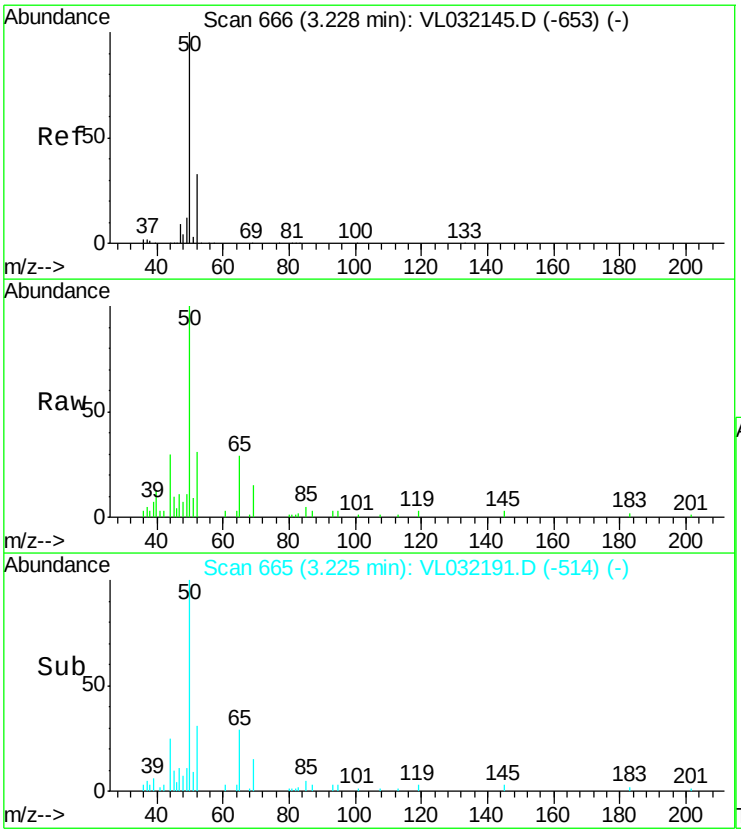

#3
Chlorodifluoromethane
Concen: 0.664 ppbv
RT: 3.07 min Scan# 617
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 51 Resp: 113948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 51 | 100 | | |
| 67 | 11.3 | 13.2 | 19.8# |

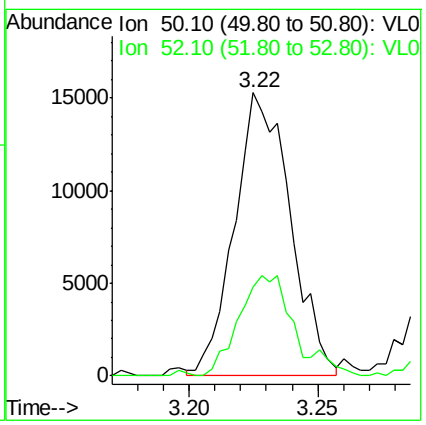


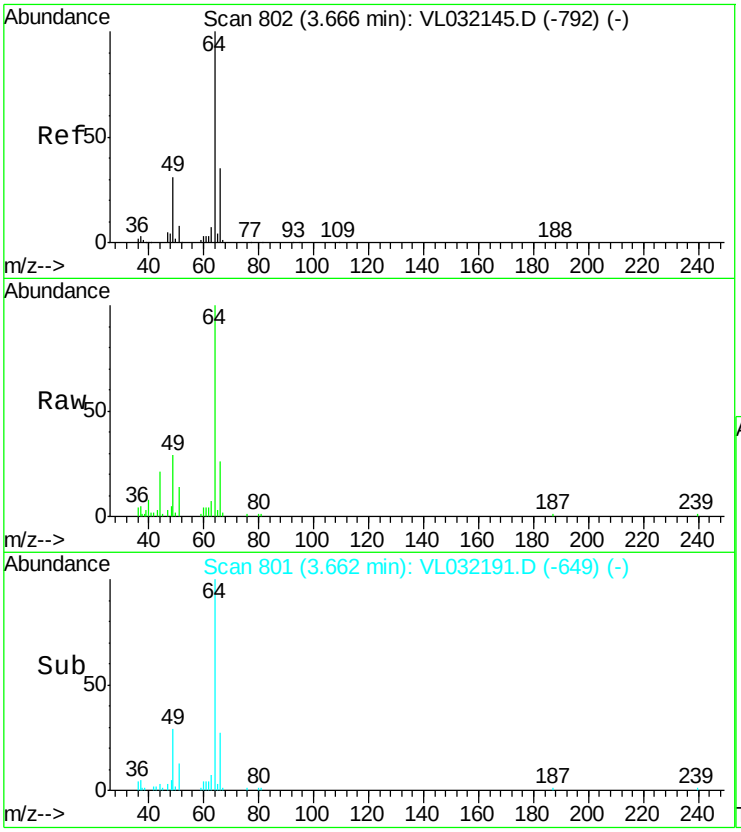




#4
Chloromethane
Concen: 0.252 ppbv
RT: 3.22 min Scan# 665
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 50 Resp: 23144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.9 | 26.0 | 39.0 |



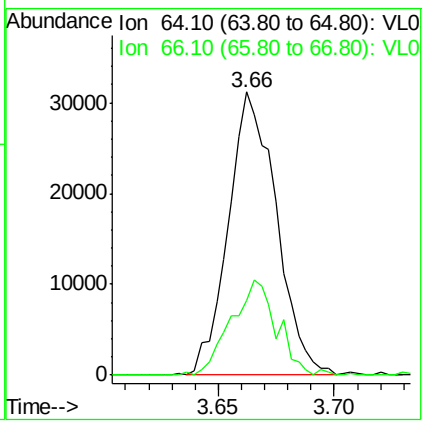


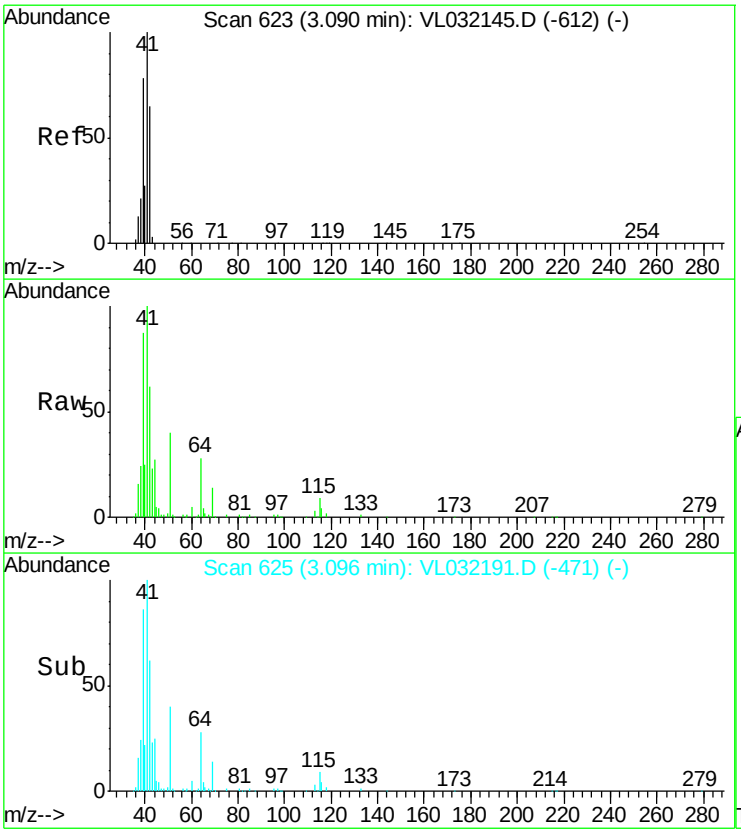

#7
Chloroethane
Concen: 1.367 ppbv
RT: 3.66 min Scan# 801
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 64 Resp: 44755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 26.2 | 26.9 | 40.3# |

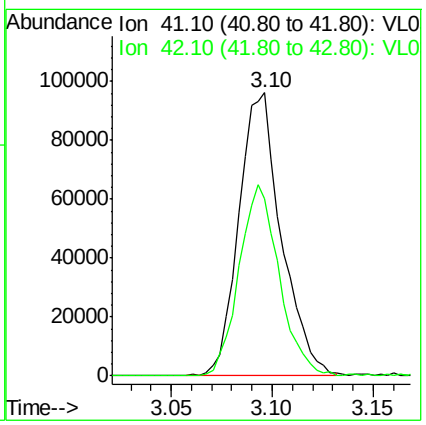


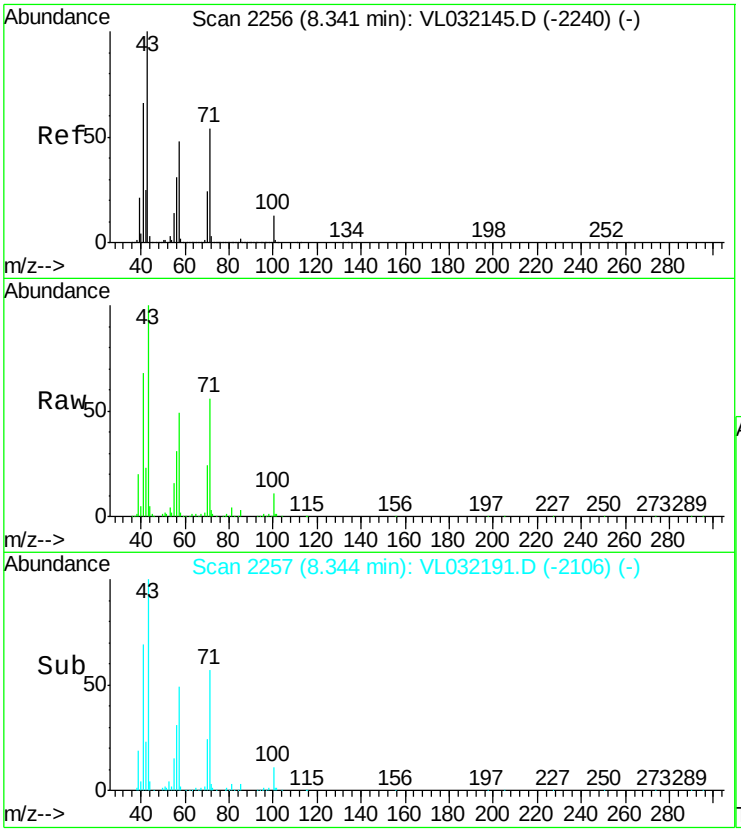




#9
Propene
Concen: 1.778 ppbv
RT: 3.10 min Scan# 625
Delta R.T. -0.00 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 41 Resp: 142298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 63.9 | 56.2 | 84.4 |



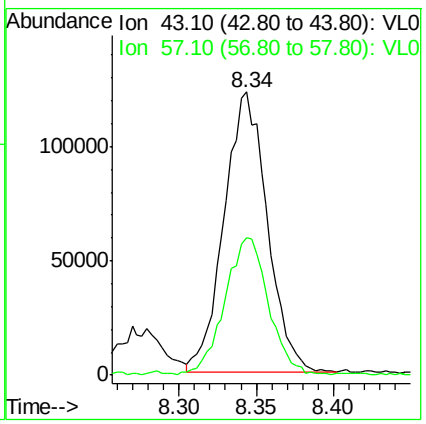


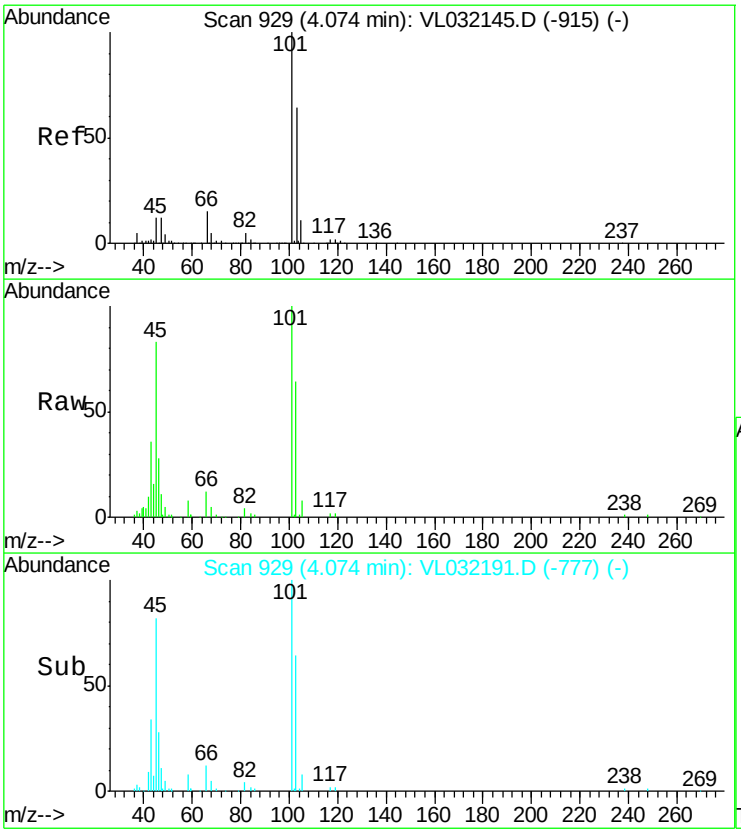

#10
Heptane
Concen: 1.021 ppbv
RT: 8.34 min Scan# 2257
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 43 Resp: 238194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 50.2 | 39.8 | 59.8 |

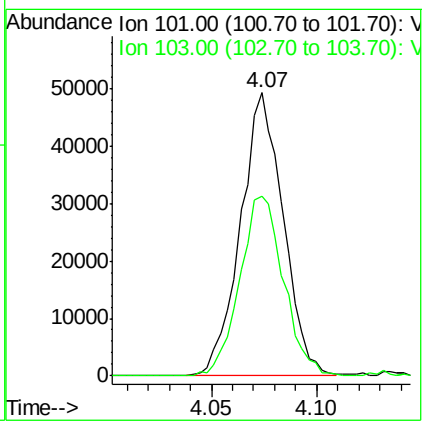


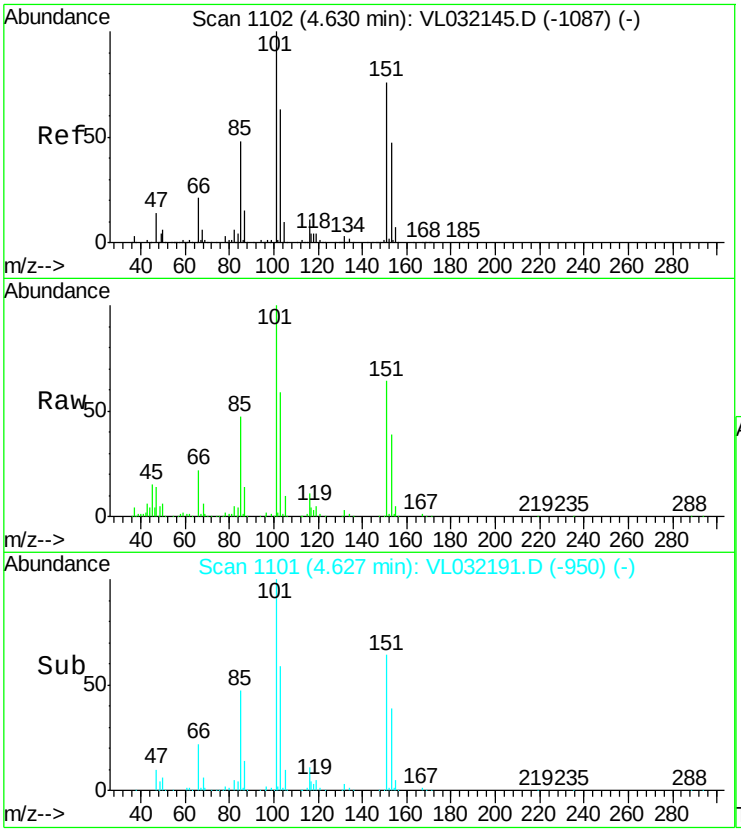




#11
Trichlorofluoromethane
Concen: 0.347 ppbv
RT: 4.07 min Scan# 929
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion:101 Resp: 69423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 51.4 | 77.0 |



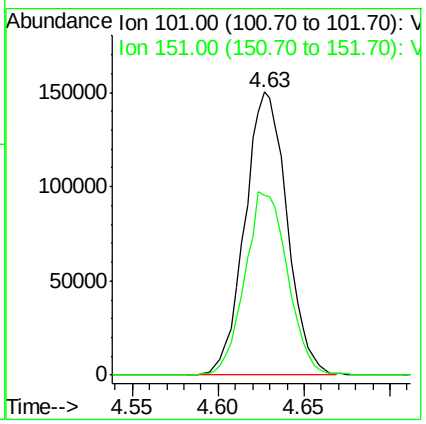


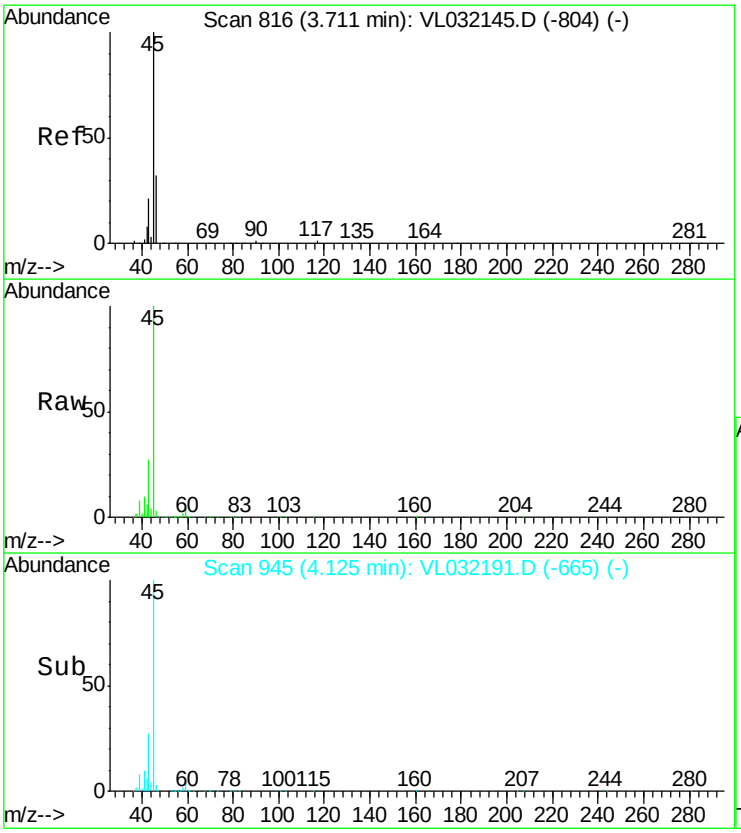

#12
1,1,2-Trichlorotrifluoroethane
Concen: 1.912 ppbv
RT: 4.63 min Scan# 1101
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion:101 Resp: 254943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 65.6 | 58.8 | 88.2 |

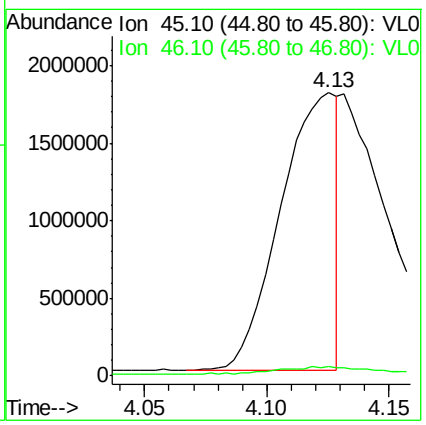


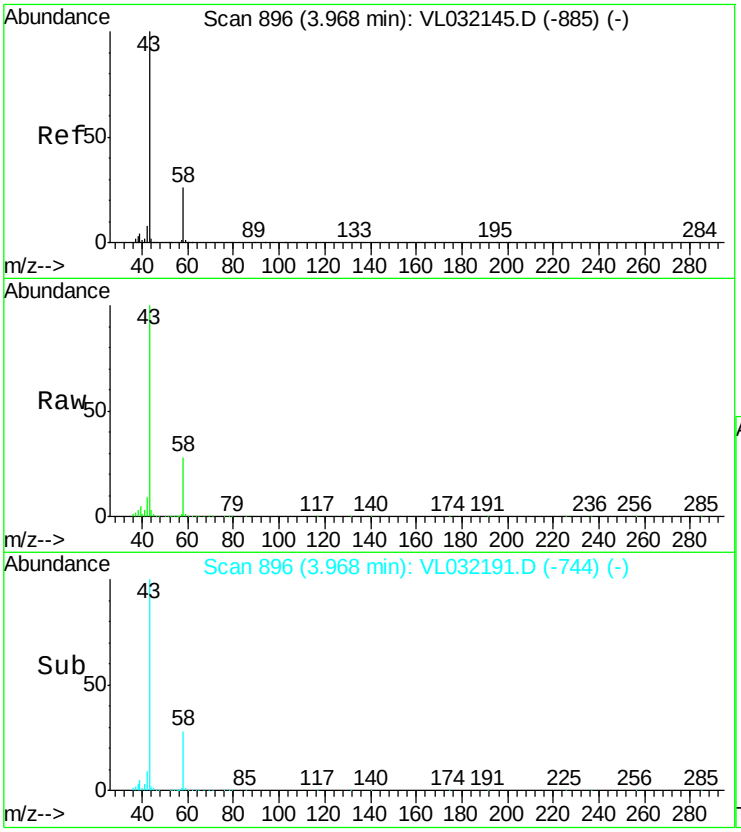




#13
Ethanol
Concen: 117.733 ppbv
RT: 4.13 min Scan# 945
Delta R.T. 0.40 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 45 Resp: 2856660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 0.0 | 14.6 | 58.4# |



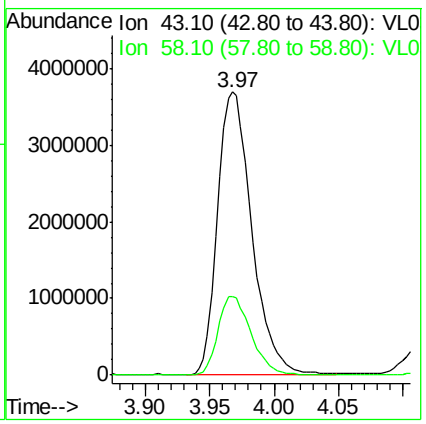


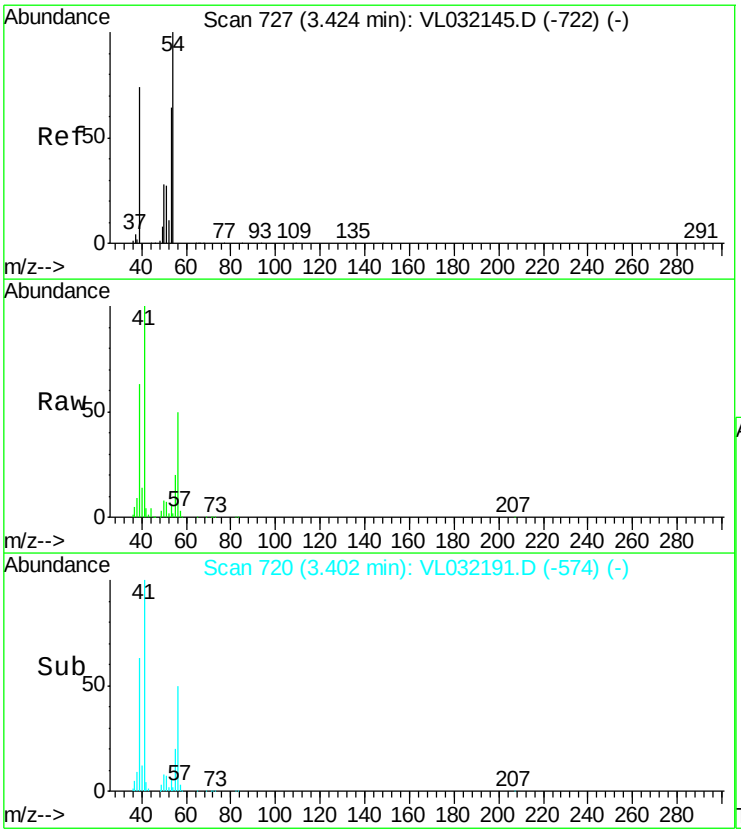

#15
Acetone
Concen: 41.103 ppbv
RT: 3.97 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 43 Resp: 6754964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.3 | 21.4 | 32.0 |

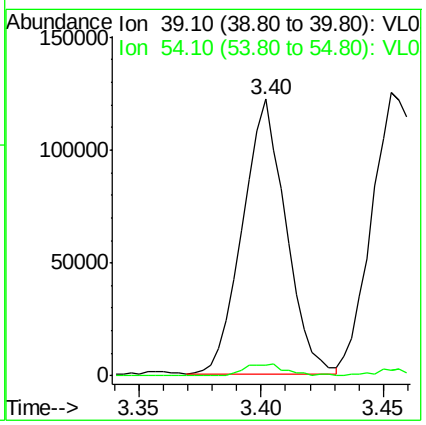


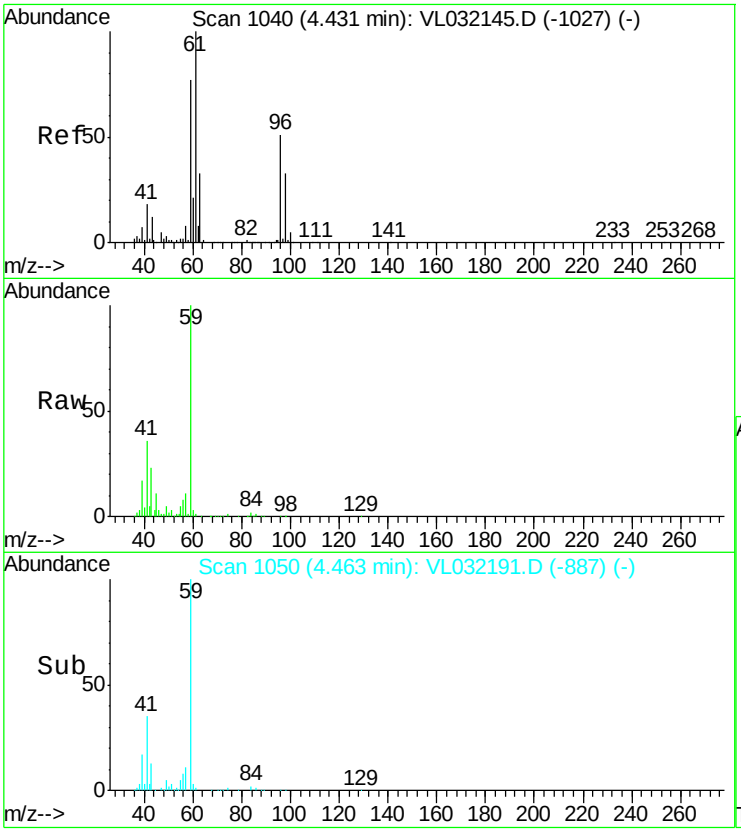




#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 3.40 min Scan# 720
Delta R.T. -0.03 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 39 Resp: 149921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 39 | 100 | | |
| 54 | 4.3 | 75.8 | 113.6# |



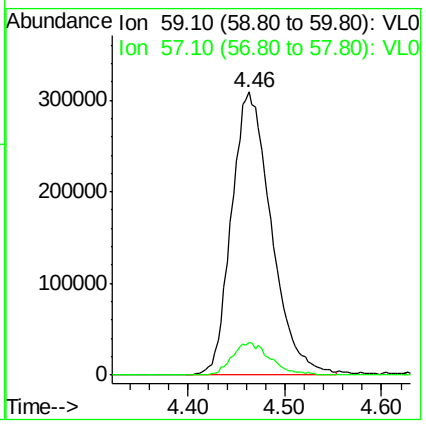


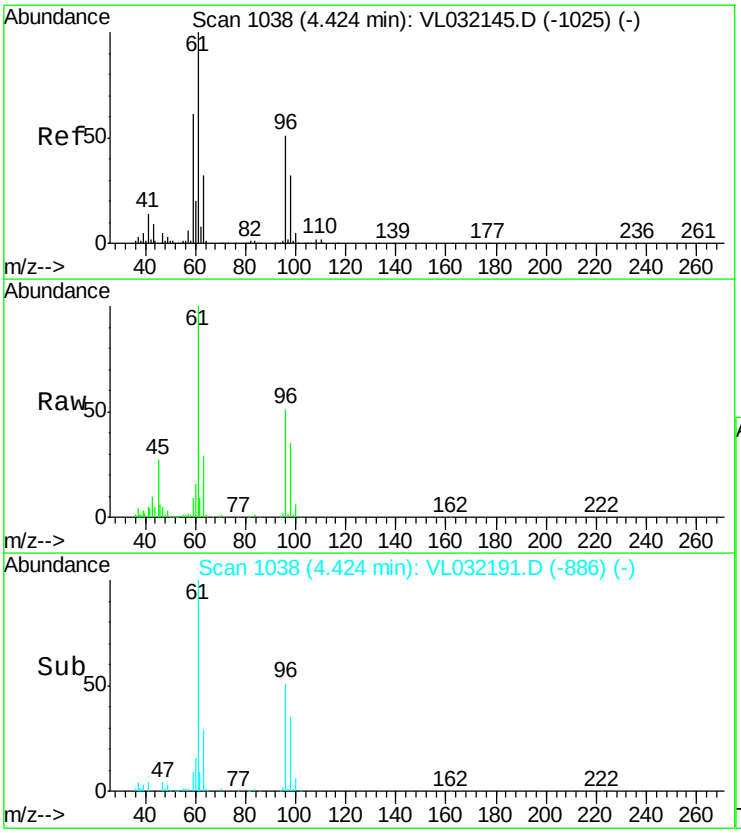

#17
tert-Butyl alcohol
Concen: 8.390 ppbv
RT: 4.46 min Scan# 1050
Delta R.T. 0.03 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 59 Resp: 877960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.2 | 8.2 | 12.2 |

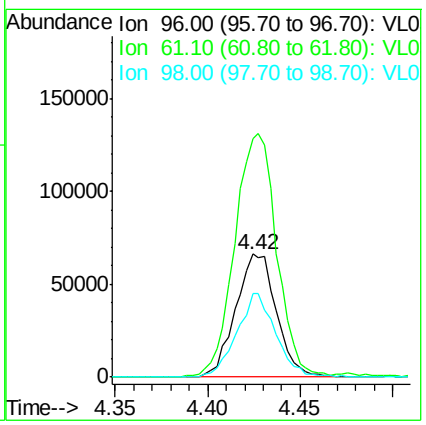


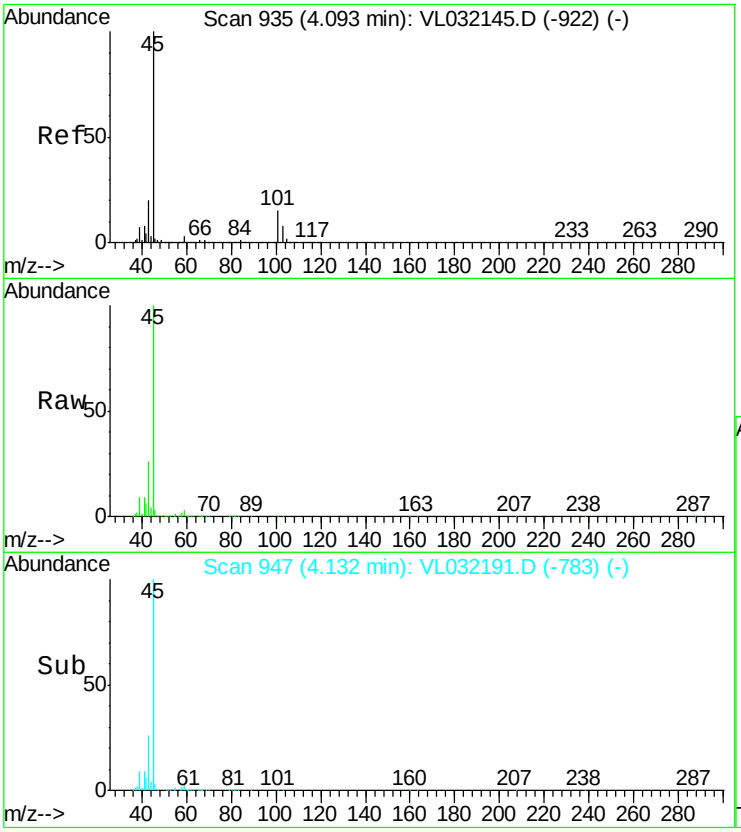




#18
1,1-Dichloroethene
Concen: 1.589 ppbv
RT: 4.42 min Scan# 1038
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 96 Resp: 101360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 193.4 | 154.1 | 231.1 |
| 98 | 67.9 | 50.3 | 75.5 |



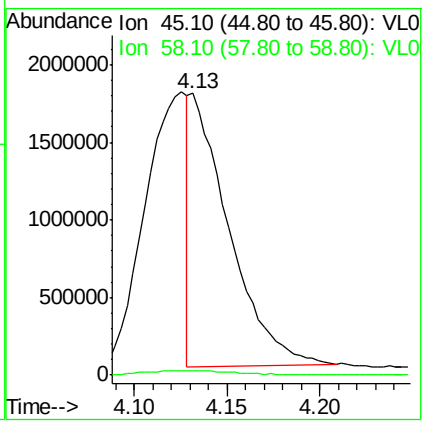


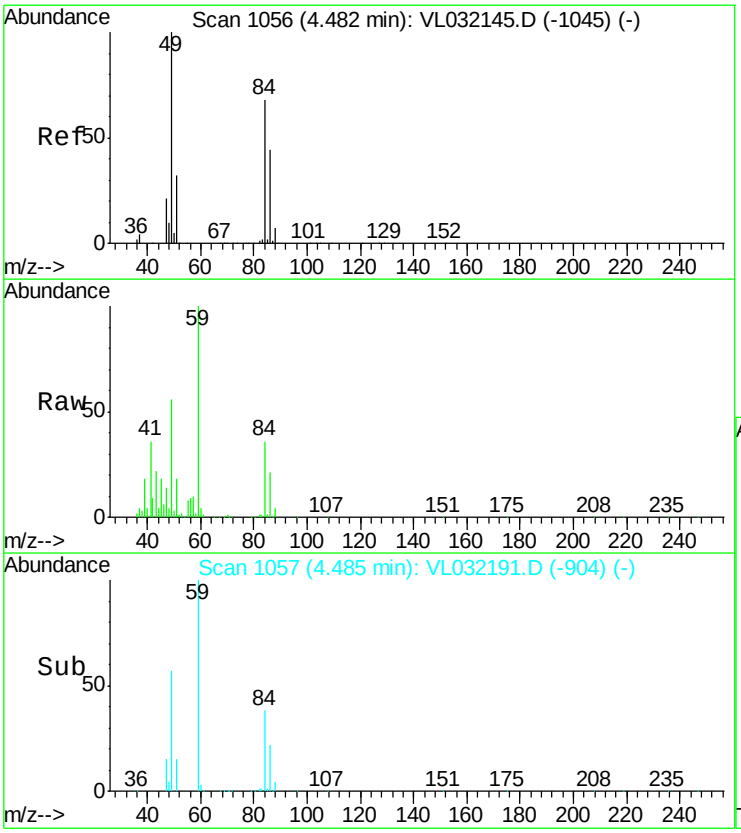

#19
Isopropyl Alcohol
Concen: 18.516 ppbv
RT: 4.13 min Scan# 947
Delta R.T. 0.03 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 45 Resp: 2528284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 58 | 3.9 | 29.4 | 44.0# |

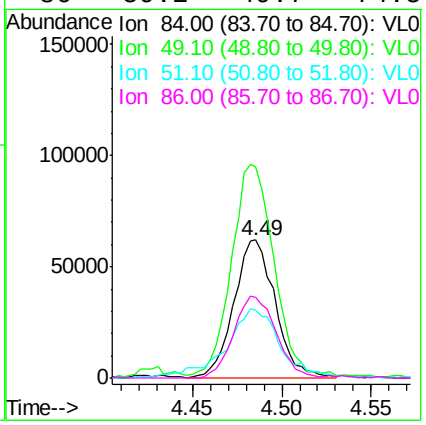


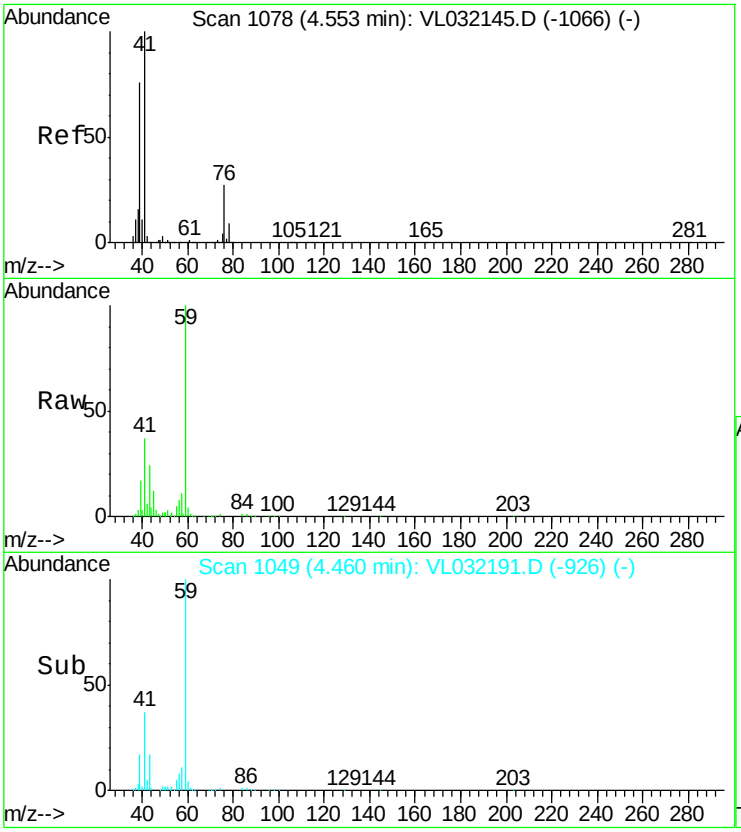




#20
Methylene Chloride
Concen: 1.648 ppbv
RT: 4.49 min Scan# 1057
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 84 Resp: 98992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 151.6 | 119.6 | 179.4 |
| 51 | 48.9 | 36.3 | 54.5 |
| 86 | 59.2 | 49.7 | 74.5 |



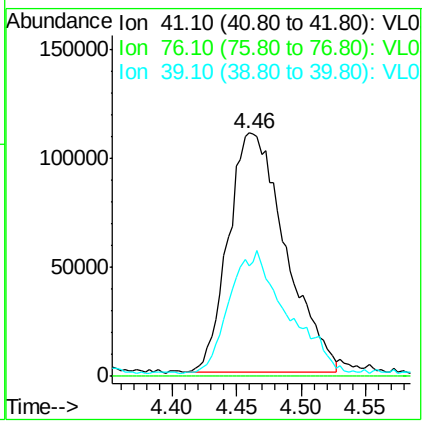


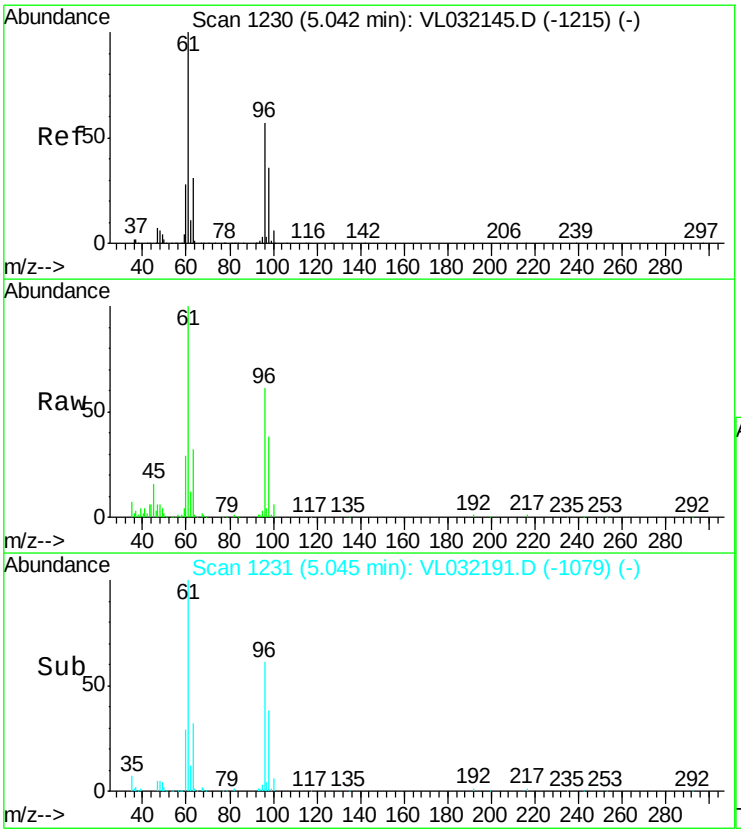

#21
Allyl Chloride
Concen: 3.030 ppbv
RT: 4.46 min Scan# 1049
Delta R.T. -0.10 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 41 Resp: 340057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 76 | 0.0 | 22.5 | 33.7# |
| 39 | 52.8 | 60.5 | 90.7# |

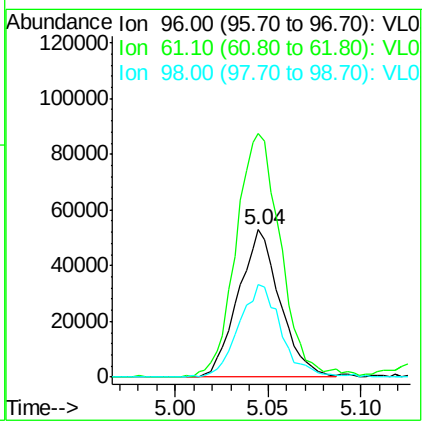


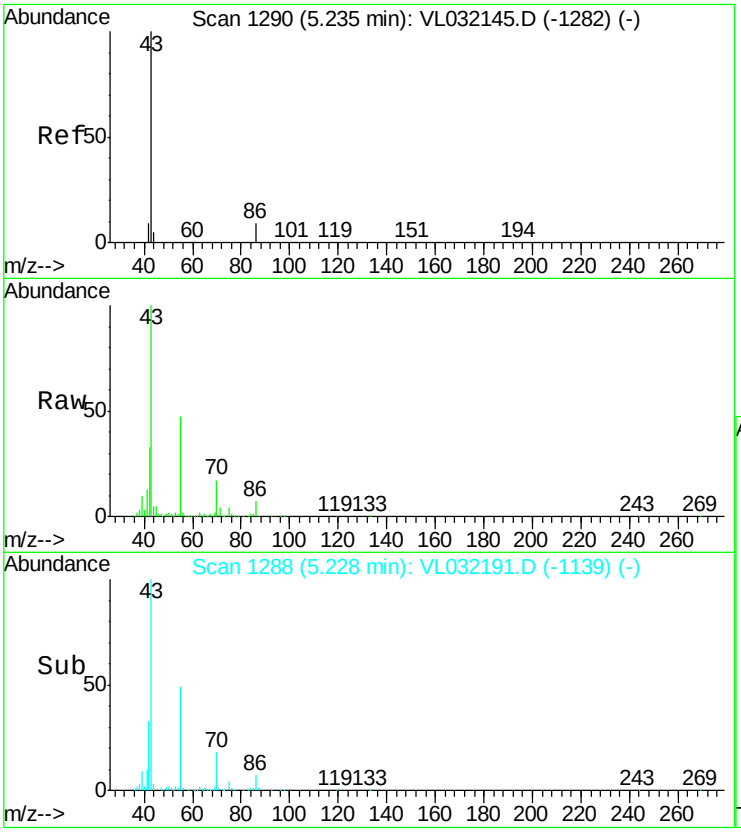




#22
trans-1,2-Dichloroethene
Concen: 1.246 ppbv
RT: 5.04 min Scan# 1231
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 96 Resp: 83066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 164.2 | 135.2 | 202.8 |
| 98 | 62.5 | 49.7 | 74.5 |



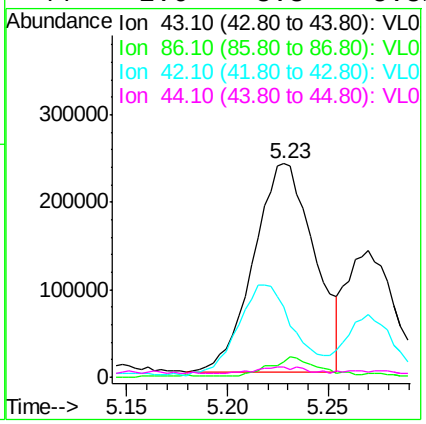


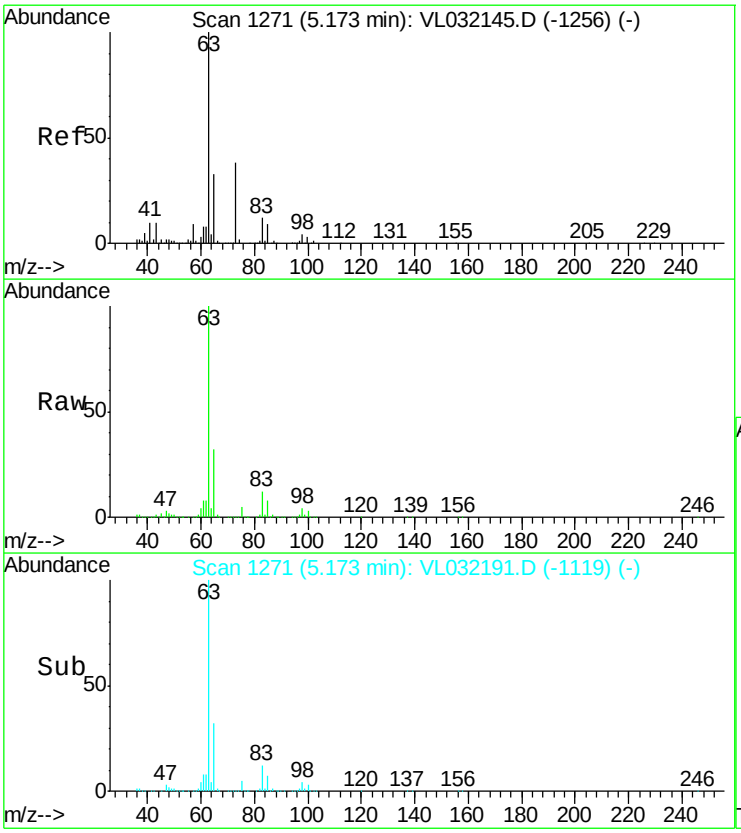

#23
Vinyl Acetate
Concen: 1.673 ppbv
RT: 5.23 min Scan# 1288
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :** MSVOA_L
**ClientSampleId :** MID

Tgt Ion: 43 Resp: 498544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 6.2 | 6.2 | 9.4# |
| 42 | 32.9 | 6.9 | 10.3# |
| 44 | 2.6 | 3.8 | 5.8# |

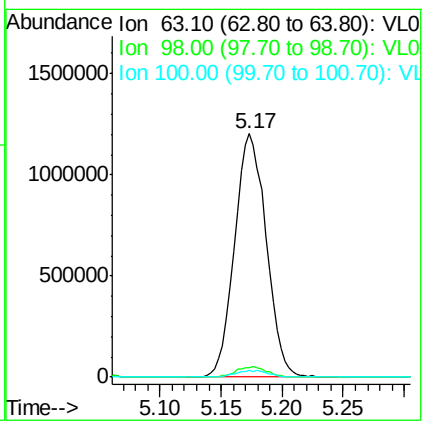


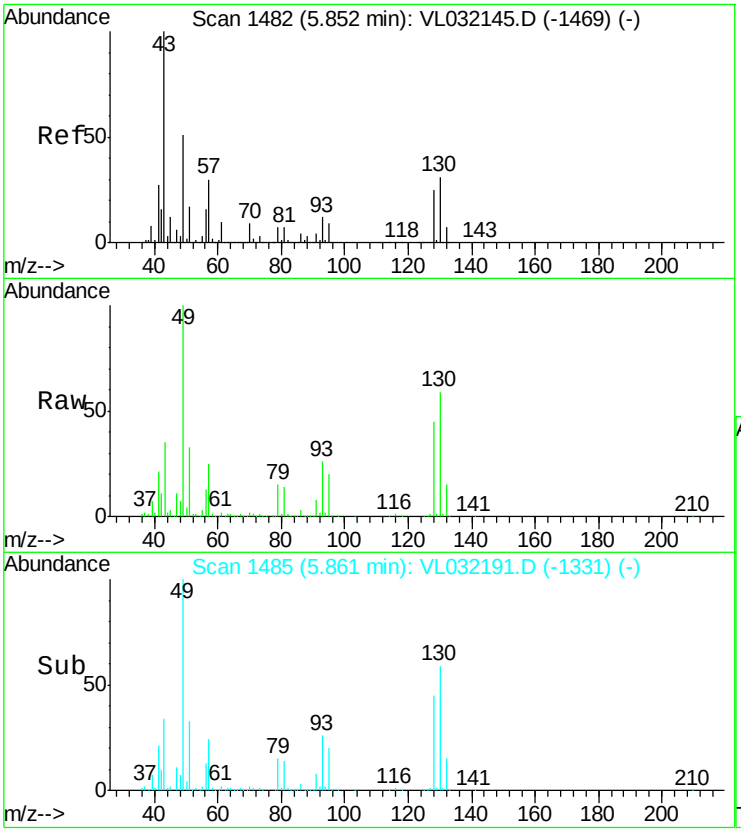




#24
1,1-Dichloroethane
Concen: 11.255 ppbv
RT: 5.17 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 63 Resp: 2148837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 3.9 | 2.4 | 7.2 |
| 100 | 2.8 | 1.7 | 5.0 |



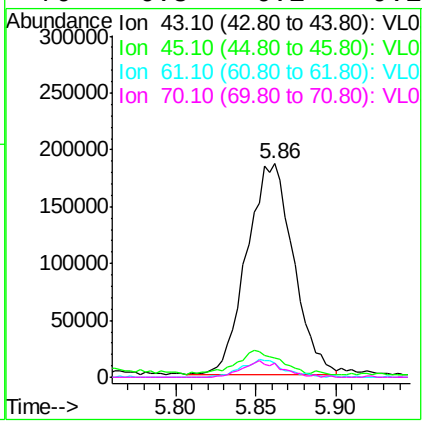


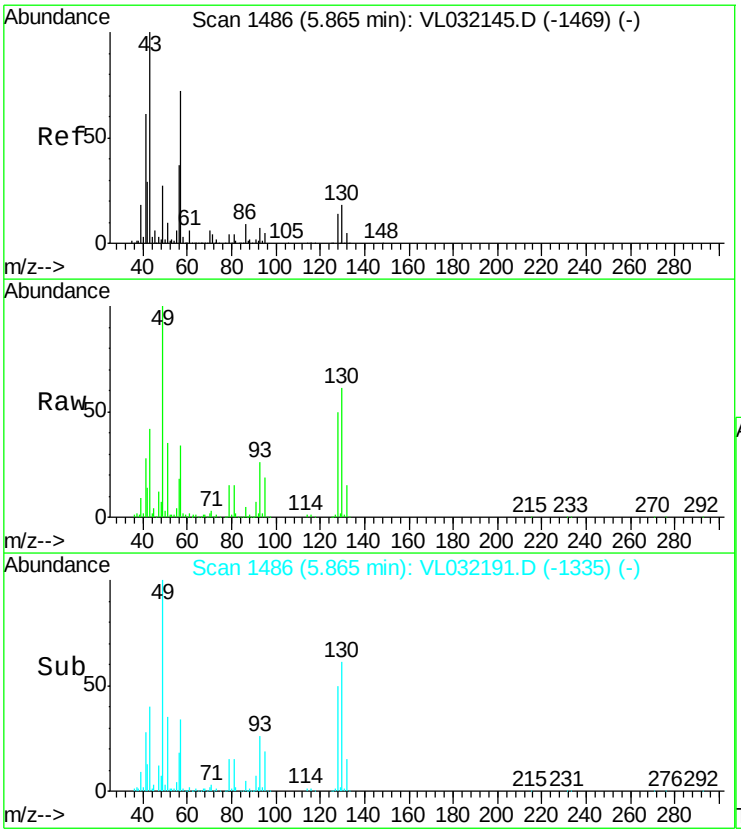

#25
Ethyl Acetate
Concen: 1.089 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.00 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :** MSVOA_L
**ClientSampleId :** MID

Tgt Ion: 43 Resp: 370191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 45 | 0.0 | 7.8 | 11.8# |
| 61 | 7.9 | 7.4 | 11.0 |
| 70 | 6.8 | 6.1 | 9.1 |

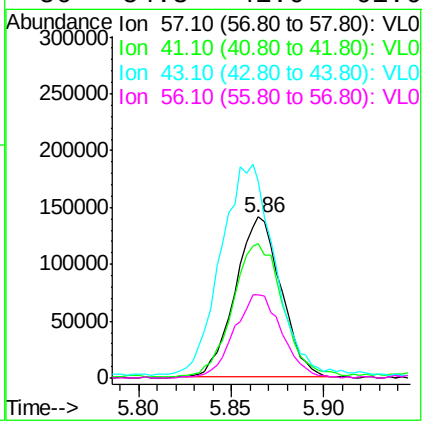


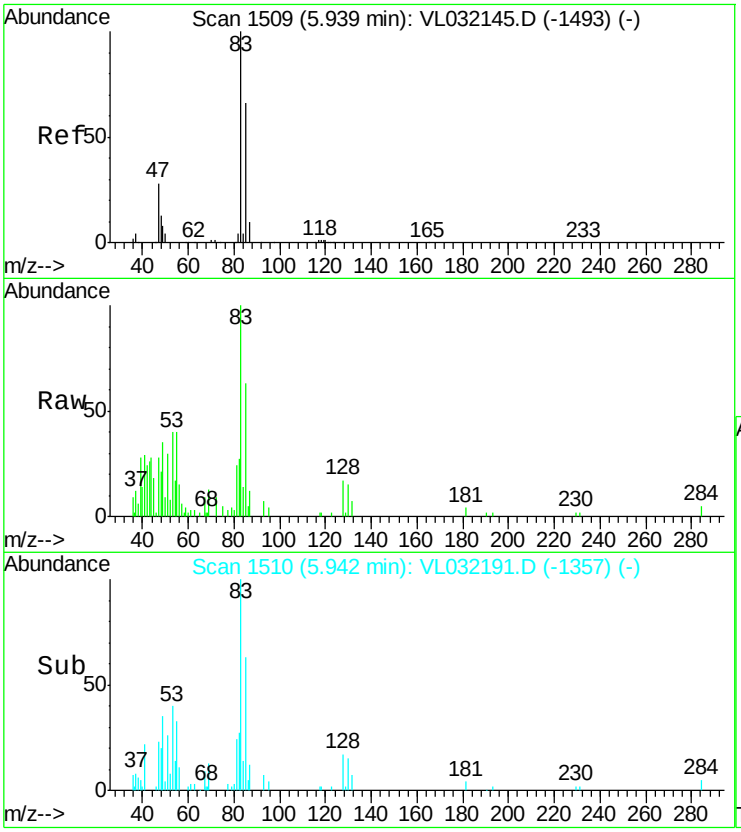




#26
Hexane
Concen: 1.540 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 57 Resp: 241184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 91.4 | 68.6 | 103.0 |
| 43 | 157.1 | 168.6 | 252.8# |
| 56 | 54.3 | 41.0 | 61.6 |



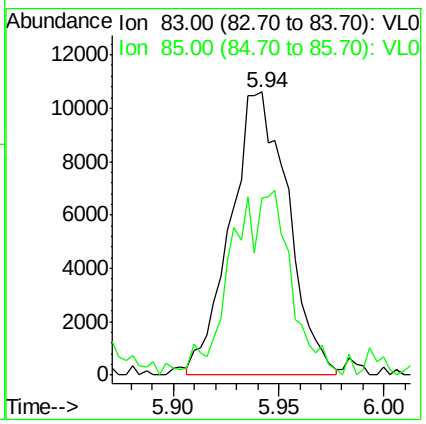


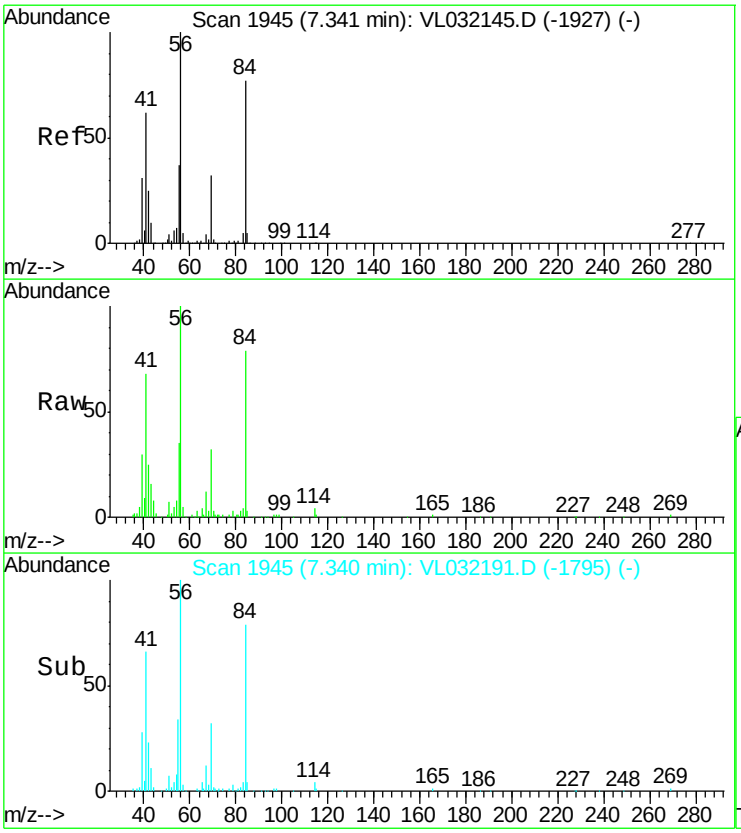

#29
Chloroform
Concen: 0.088 ppbv
RT: 5.94 min Scan# 1510
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 83 Resp: 20169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.8 | 51.6 | 77.4 |

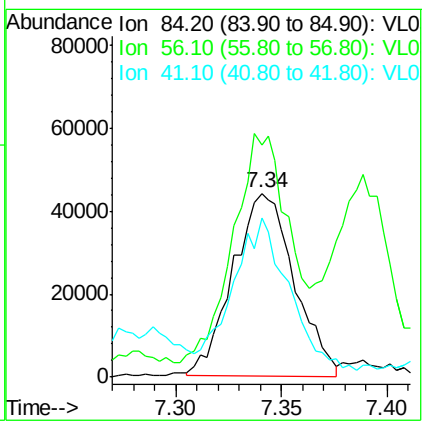


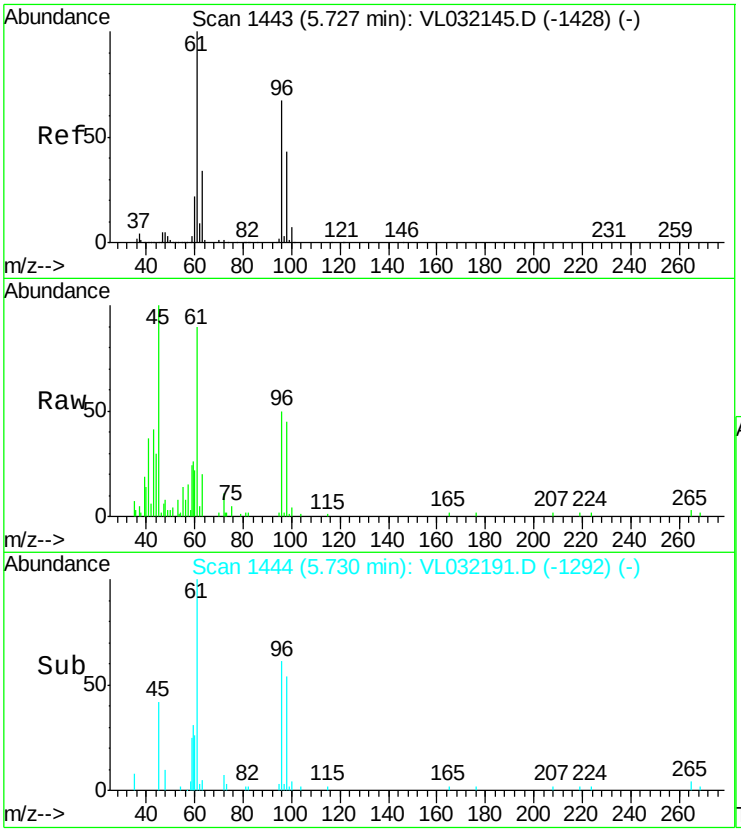




#30
Cyclohexane
Concen: 0.604 ppbv
RT: 7.34 min Scan# 1945
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 84 Resp: 89183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 56 | 133.4 | 109.1 | 163.7 |
| 41 | 78.2 | 64.6 | 96.8 |



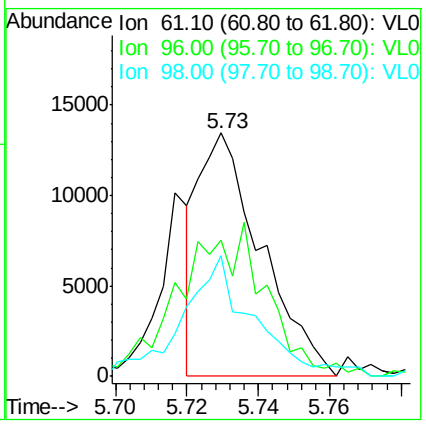


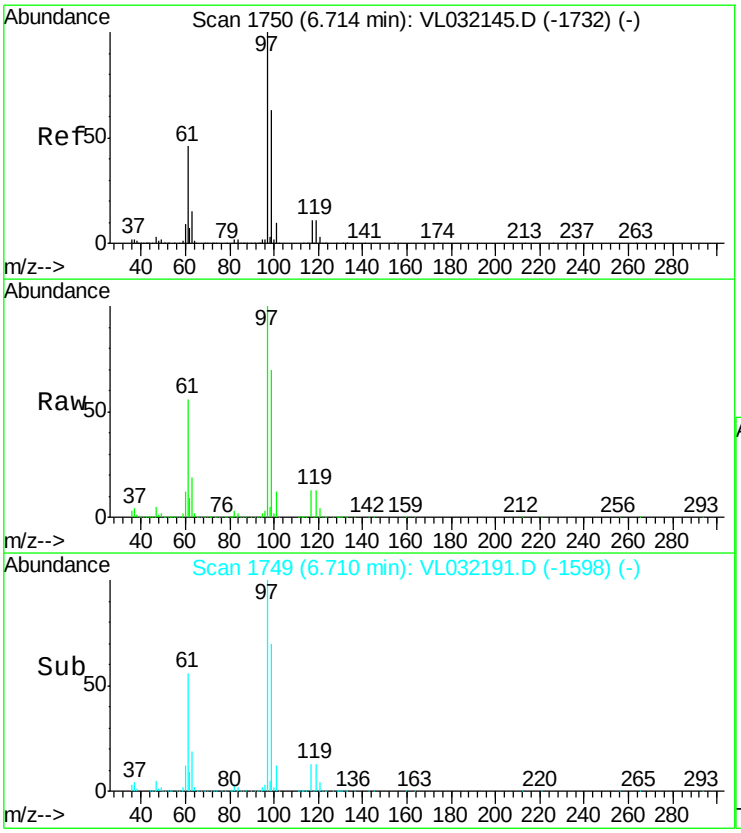

#31
cis-1,2-Dichloroethene
Concen: 0.105 ppbv
RT: 5.73 min Scan# 1444
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 61 Resp: 16396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 50.5 | 54.2 | 81.4# |
| 98 | 46.0 | 34.6 | 52.0 |

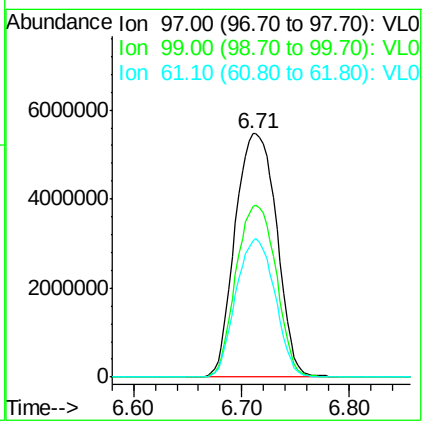


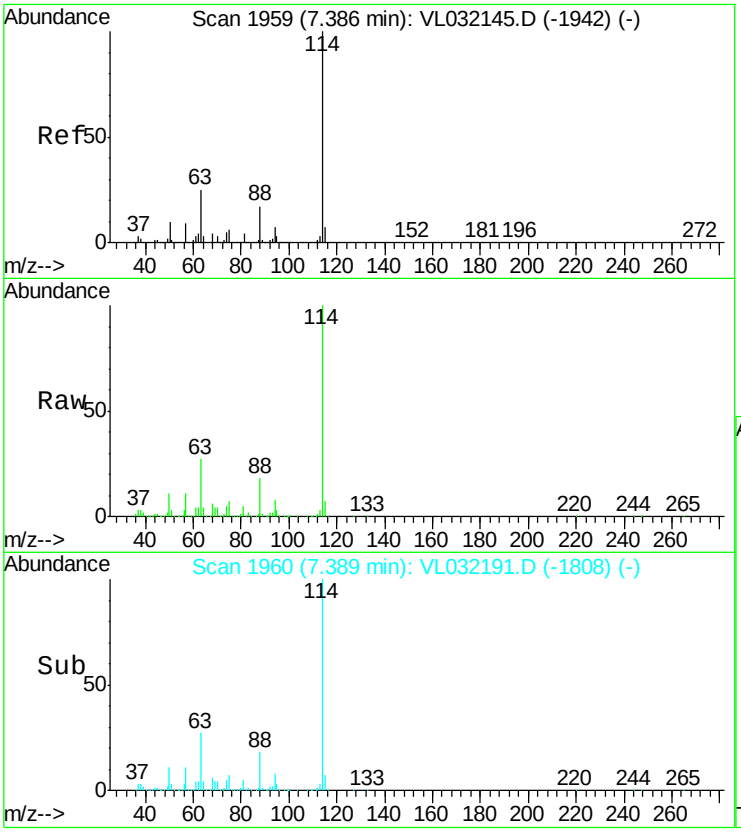




#32
1,1,1-Trichloroethane
Concen: 61.337 ppbv
RT: 6.71 min Scan# 1749
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 97 Resp:14654801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 68.4 | 51.3 | 76.9 |
| 61 | 53.6 | 38.4 | 57.6 |



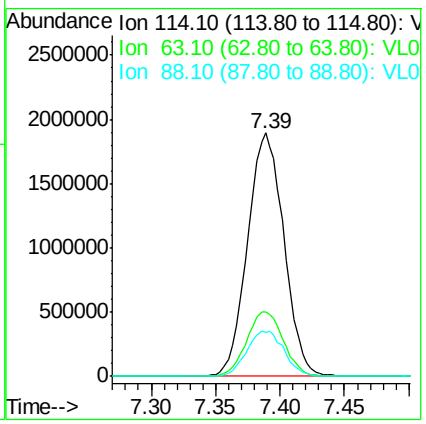


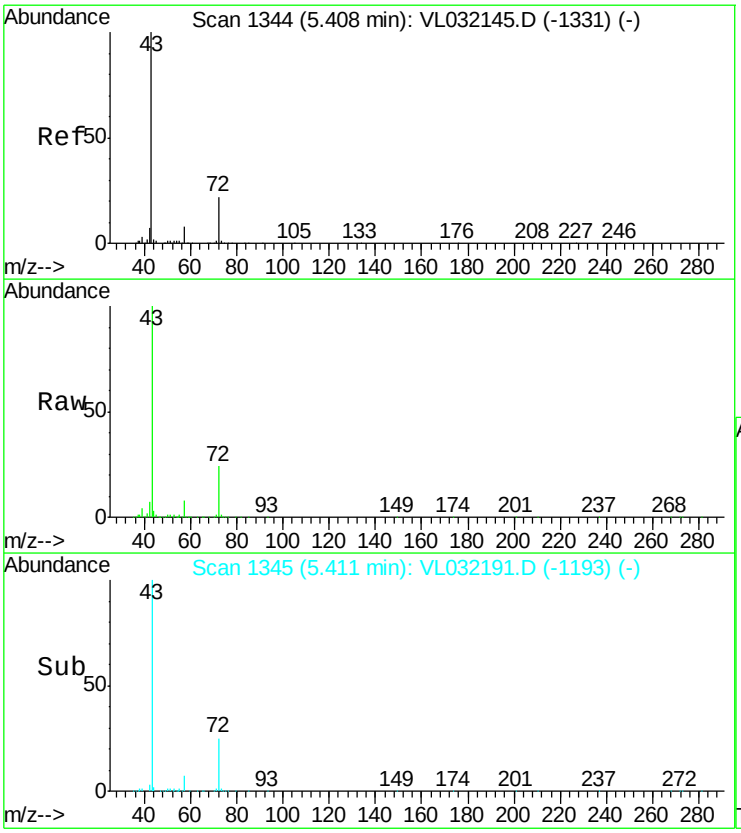

#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.39 min Scan# 1960
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion:114 Resp: 3722379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 27.1 | 19.1 | 28.7 |
| 88 | 19.1 | 13.9 | 20.9 |

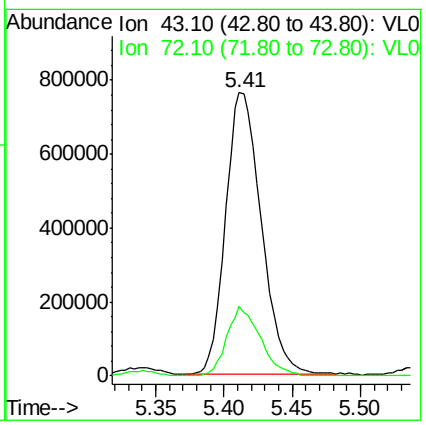


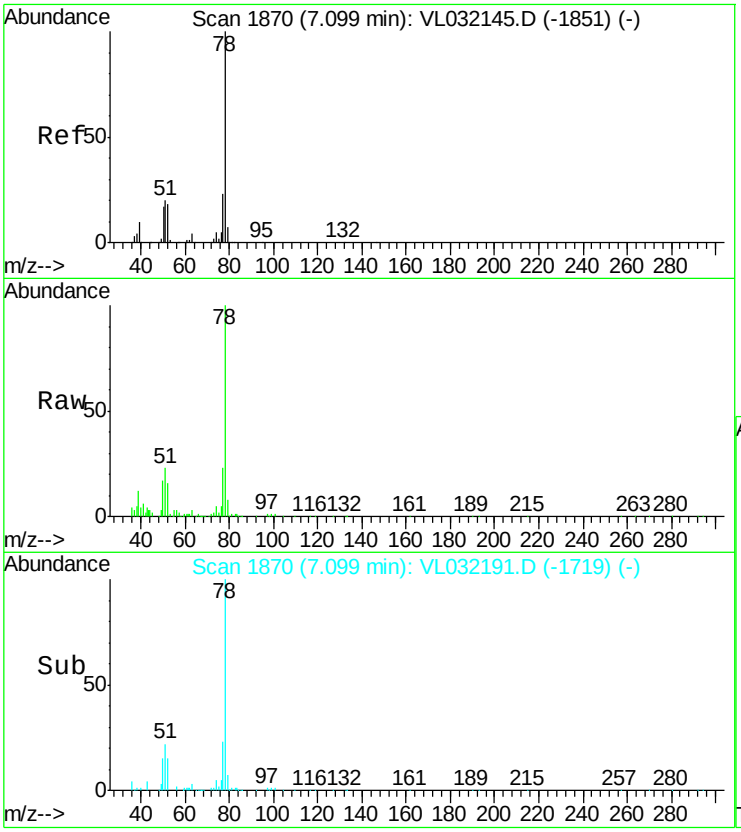




#34
2-Butanone
Concen: 5.873 ppbv
RT: 5.41 min Scan# 1345
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 43 Resp: 1387588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 23.0 | 18.4 | 27.6 |



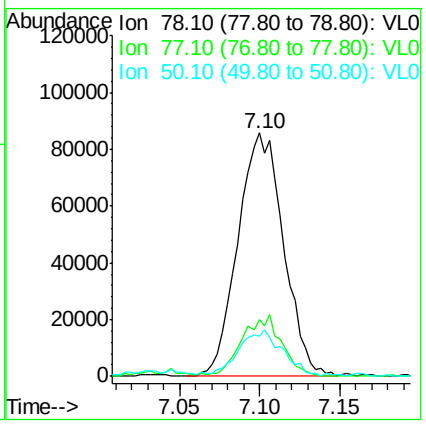


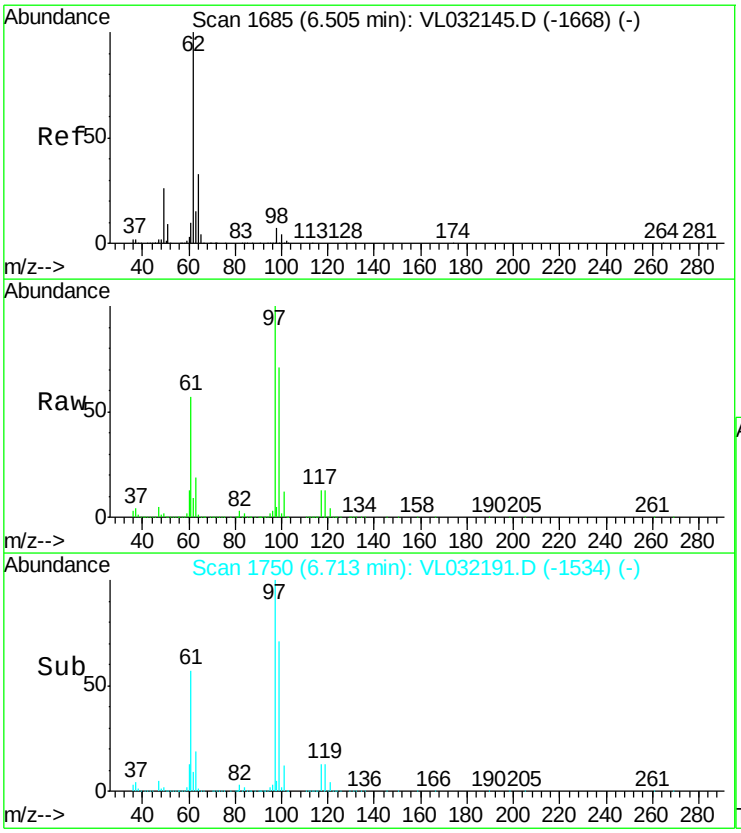

#36
Benzene
Concen: 0.464 ppbv
RT: 7.10 min Scan# 1870
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 78 Resp: 166997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 17.7 | 26.5 |
| 50 | 15.8 | 14.0 | 21.0 |

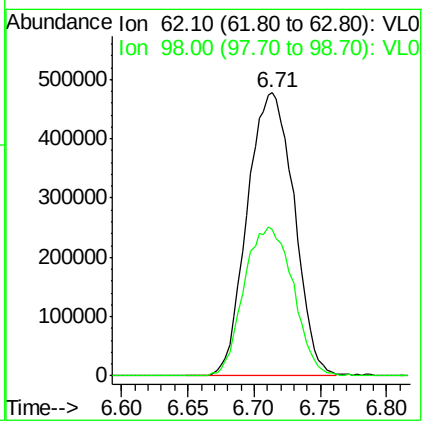


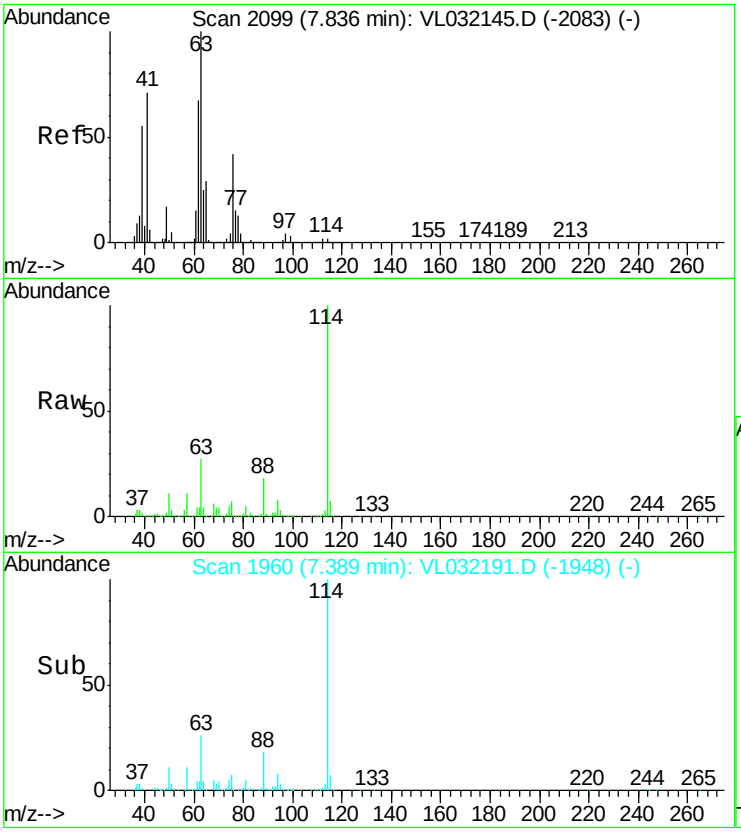




#37
1,2-Dichloroethane
Concen: 6.518 ppbv
RT: 6.71 min Scan# 1750
Delta R.T. 0.20 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 62 Resp: 1170007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 55.2 | 5.8 | 8.6# |



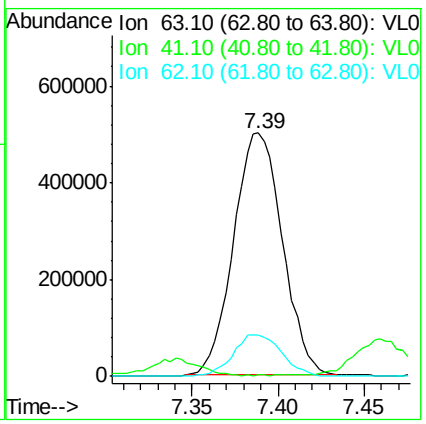


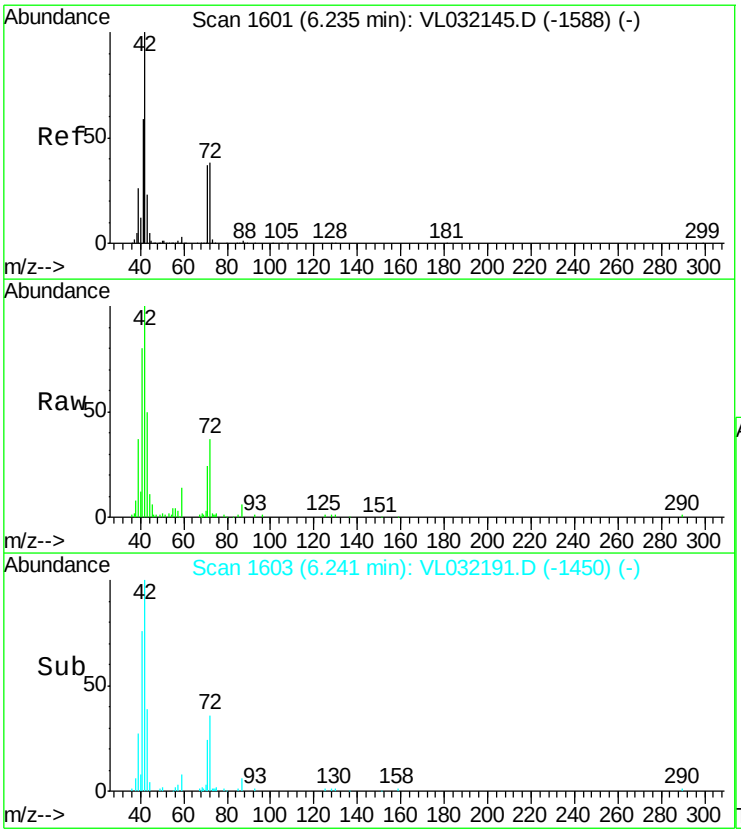

#39
1,2-Dichloropropane
Concen: 6.963 ppbv
RT: 7.39 min Scan# 1960
Delta R.T. -0.46 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 63 Resp: 989321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 41 | 0.0 | 53.3 | 79.9# |
| 62 | 16.8 | 54.8 | 82.2# |

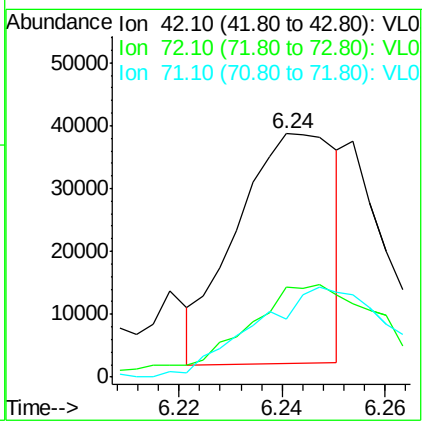


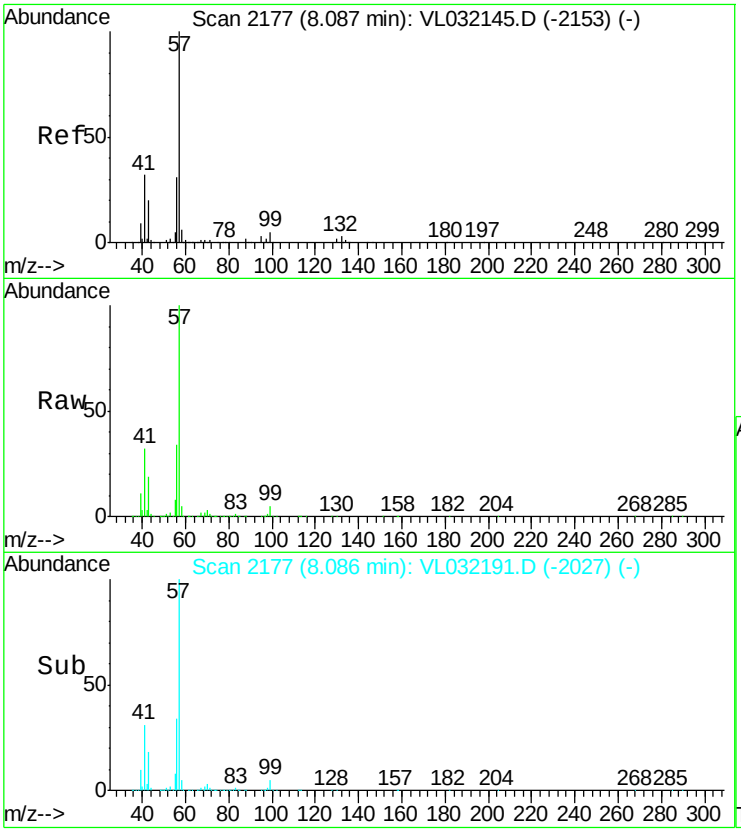




#41
Tetrahydrofuran
Concen: 0.344 ppbv
RT: 6.24 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 42 Resp: 48763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 62.4 | 31.1 | 46.7# |
| 71 | 56.7 | 29.5 | 44.3# |



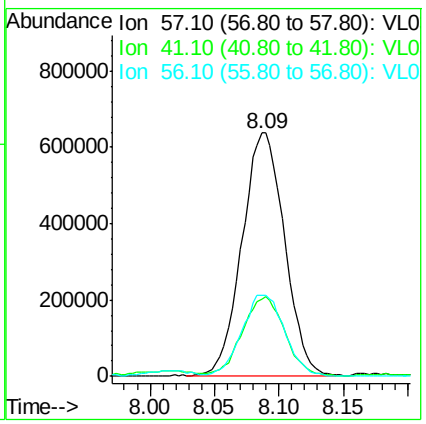


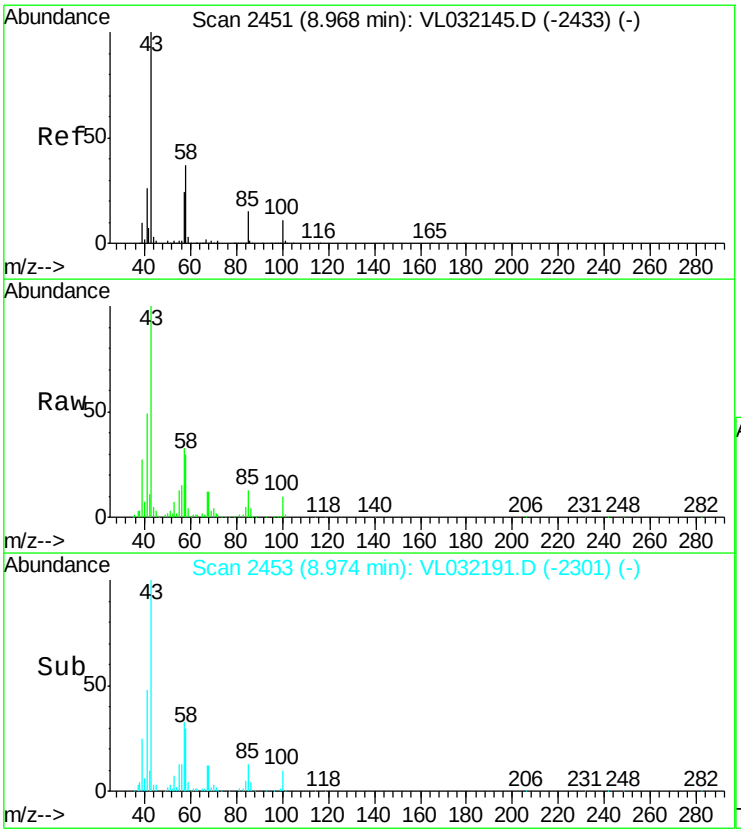

#44
2,2,4-Trimethylpentane
Concen: 2.322 ppbv
RT: 8.09 min Scan# 2177
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 57 Resp: 1463609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 32.4 | 24.3 | 36.5 |
| 56 | 33.6 | 25.1 | 37.7 |

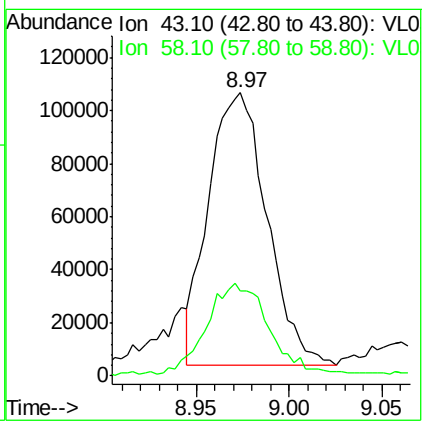


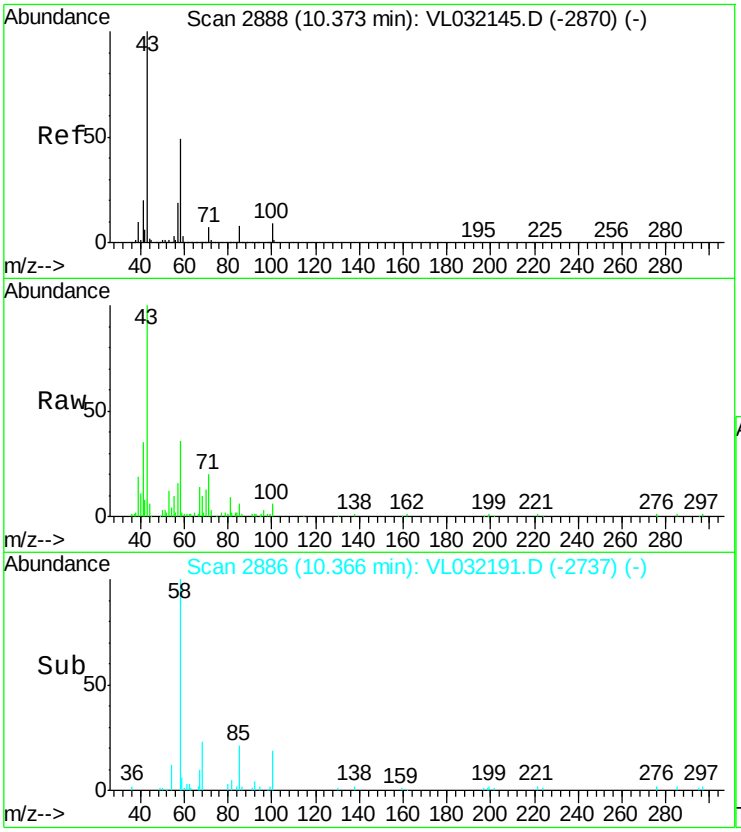




#50
4-Methyl-2-Pentanone
Concen: 0.579 ppbv
RT: 8.97 min Scan# 2453
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 43 Resp: 223898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.6 | 29.8 | 44.6 |



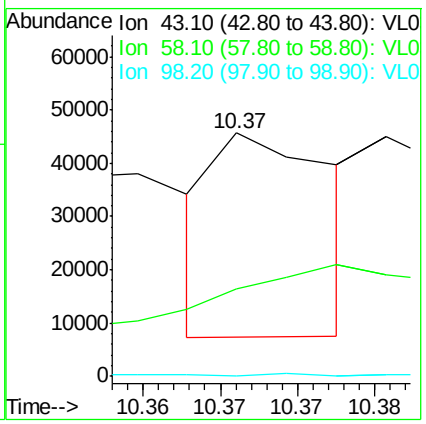


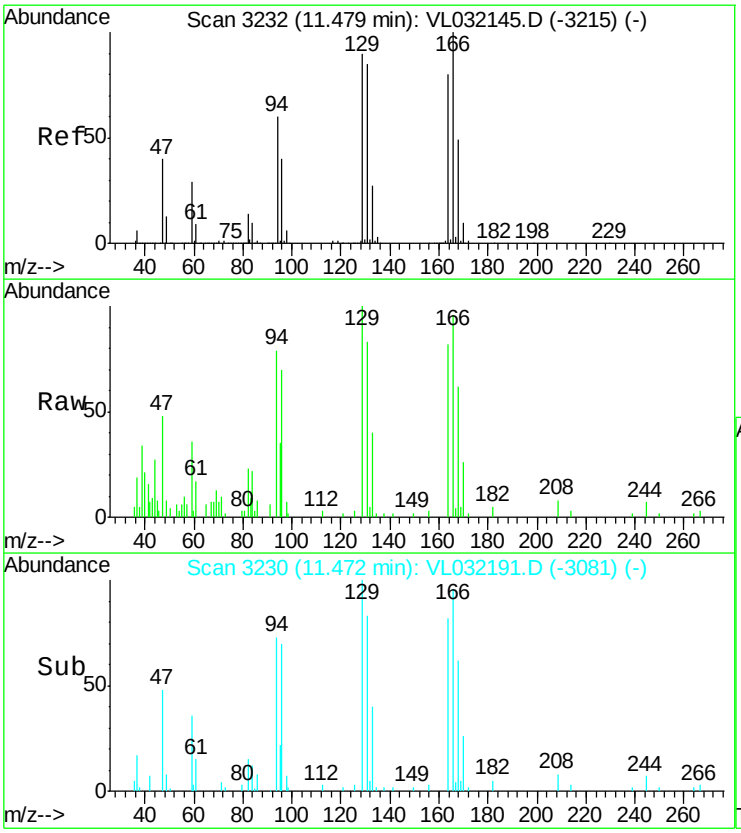

#51
2-Hexanone
Concen: 0.063 ppbv
RT: 10.37 min Scan# 2886
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :** MSVOA_L
**ClientSampleId :** MID

Tgt Ion: 43 Resp: 20164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 40.6 | 60.8# |
| 98 | 0.0 | 0.1 | 0.1# |

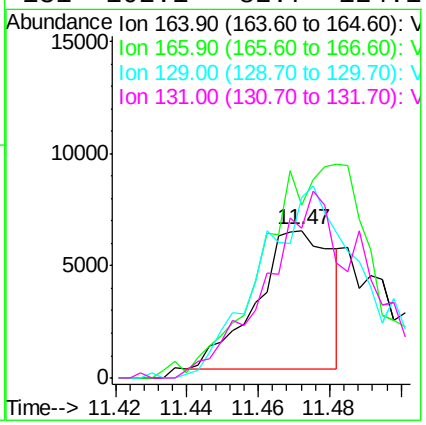


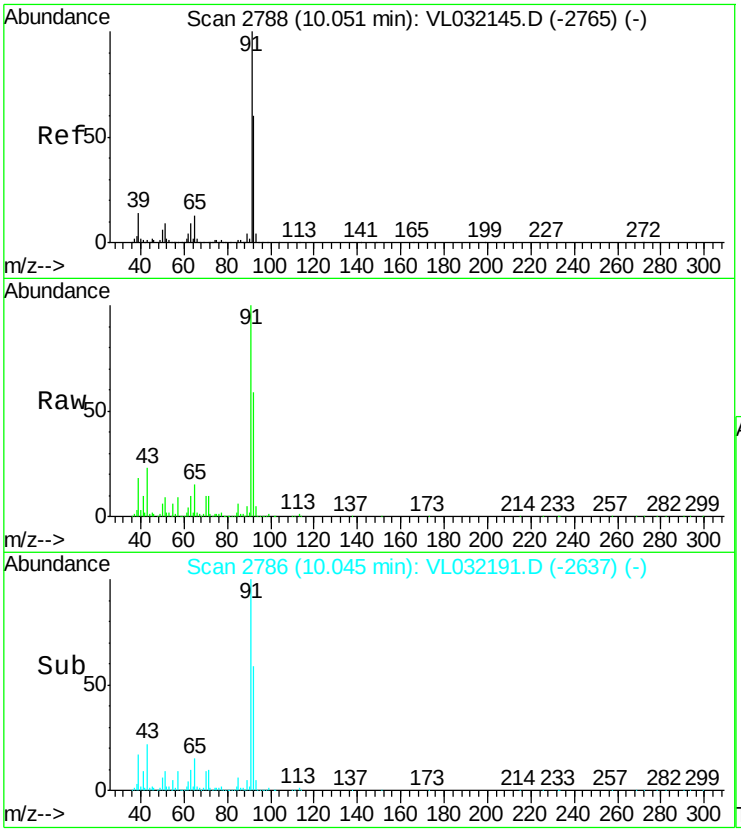




#52
Tetrachloroethene
Concen: 0.070 ppbv
RT: 11.47 min Scan# 3230
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion:164 Resp: 9115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.7 | 100.6 | 151.0 |
| 129 | 127.1 | 84.0 | 126.0# |
| 131 | 102.1 | 82.7 | 124.1 |



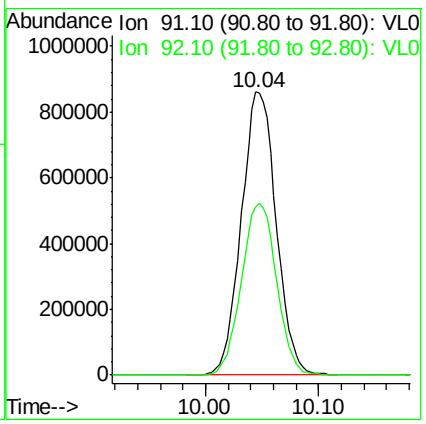


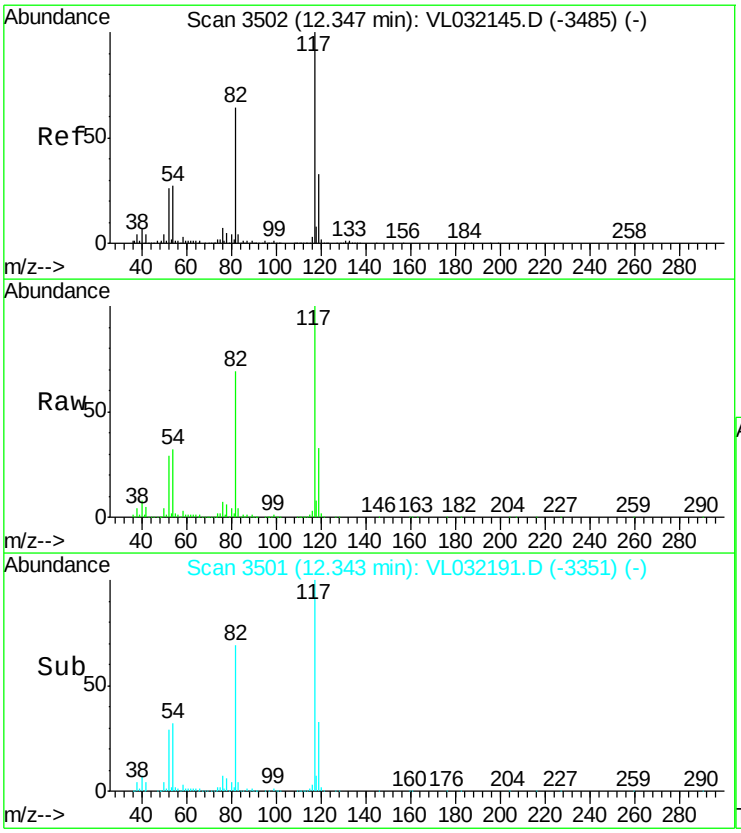

#53
Toluene
Concen: 4.239 ppbv
RT: 10.04 min Scan# 2786
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :** MSVOA_L
**ClientSampleId :** MID

Tgt Ion: 91 Resp: 1845948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 61.3 | 49.2 | 73.8 |

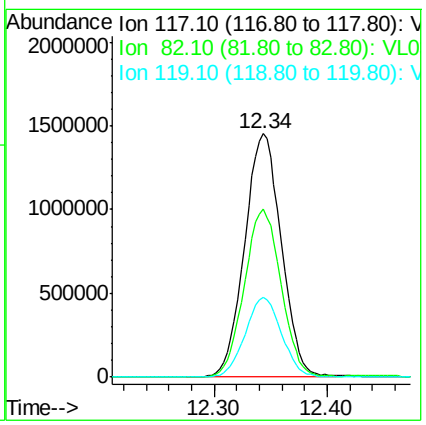


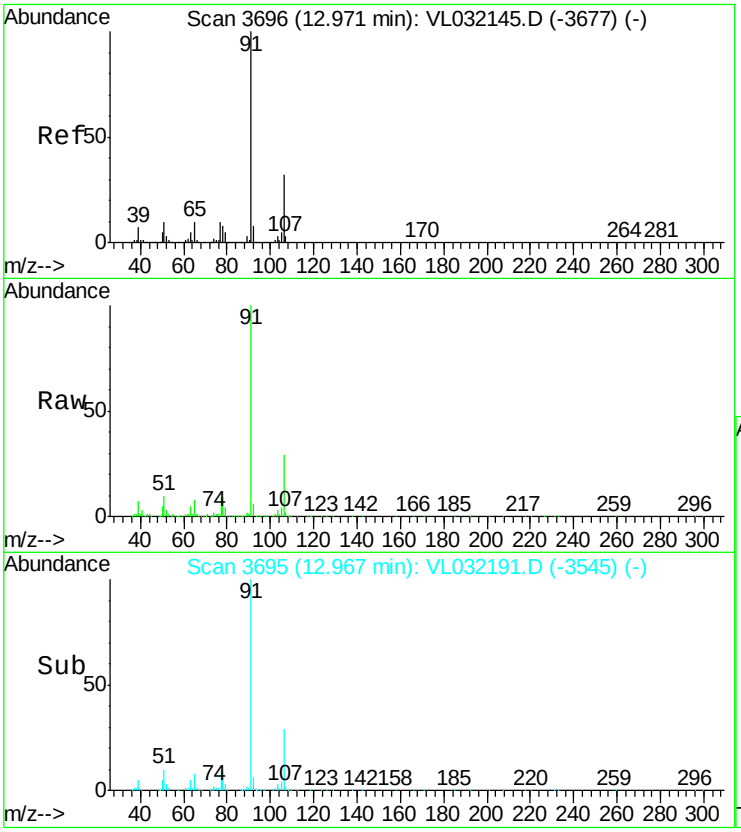




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.34 min Scan# 3501
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion:117 Resp: 3275773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 69.2 | 47.8 | 71.8 |
| 119 | 32.5 | 43.3 | 64.9# |



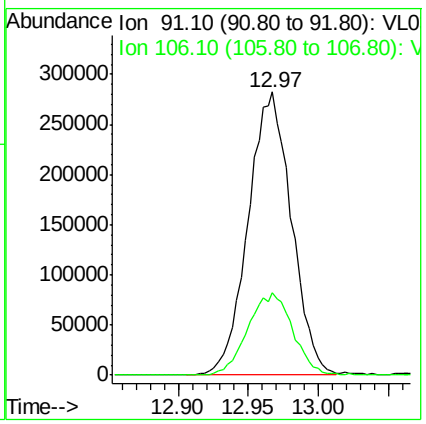


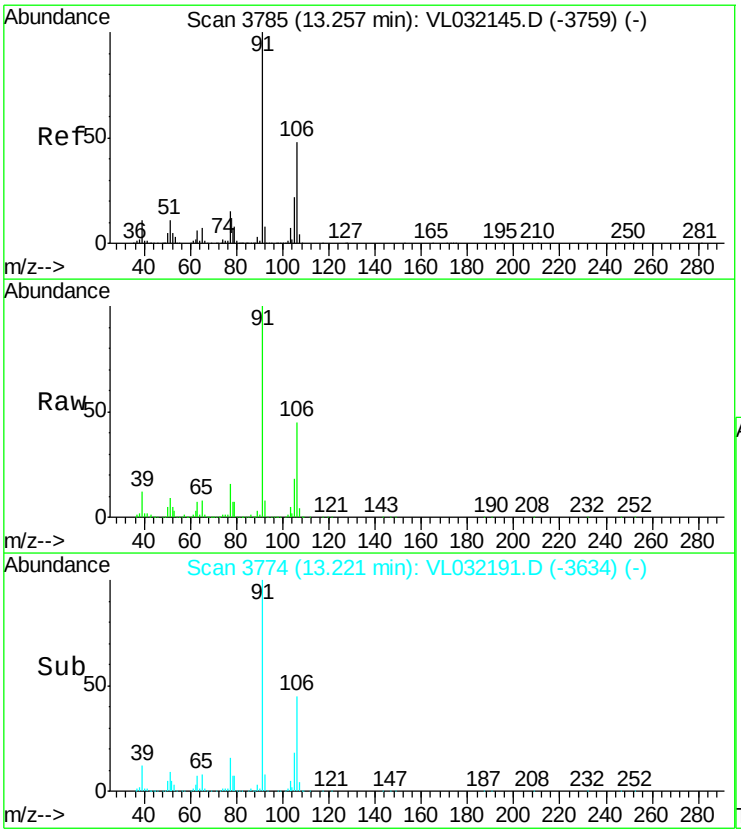

#58
Ethyl Benzene
Concen: 1.139 ppbv
RT: 12.97 min Scan# 3695
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :** MSVOA_L
**ClientSampleId :** MID

Tgt Ion: 91 Resp: 601334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.0 | 26.5 | 39.7 |

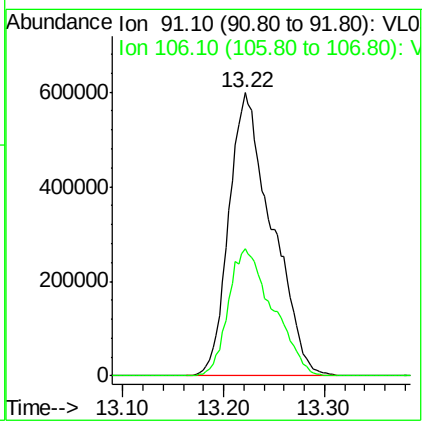


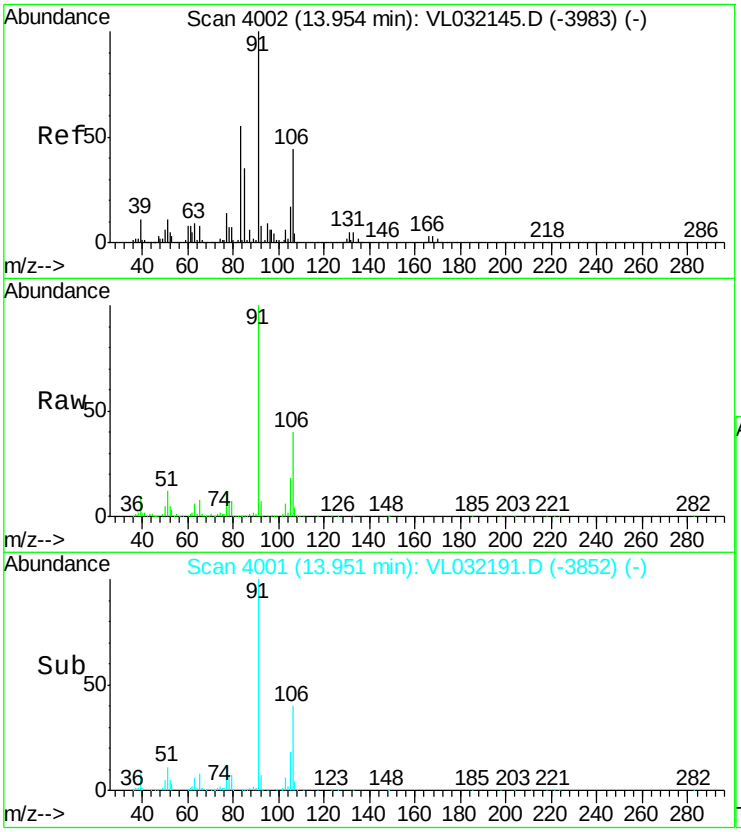




#59
m/p-Xylene
Concen: 4.183 ppbv
RT: 13.22 min Scan# 3774
Delta R.T. -0.05 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 91 Resp: 1770188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.4 | 38.6 | 58.0 |



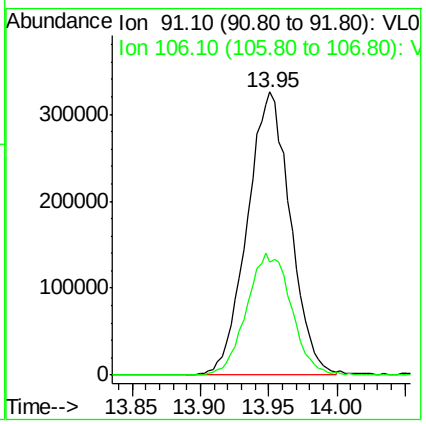


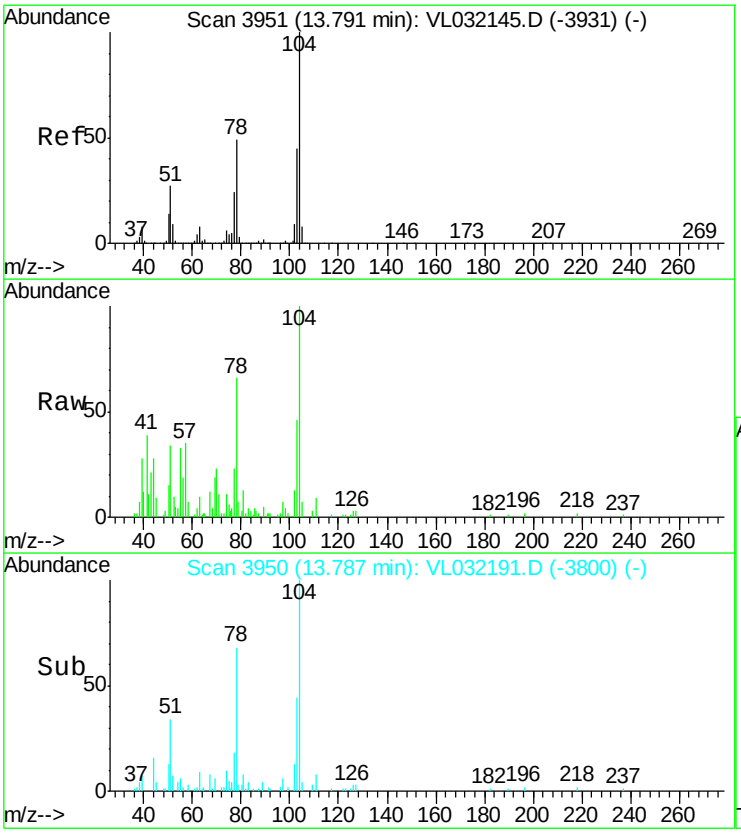

#60
o-Xylene
Concen: 1.689 ppbv
RT: 13.95 min Scan# 4001
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 91 Resp: 712877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.5 | 23.3 | 69.8 |

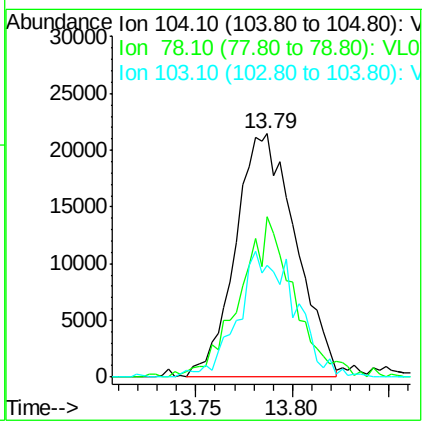


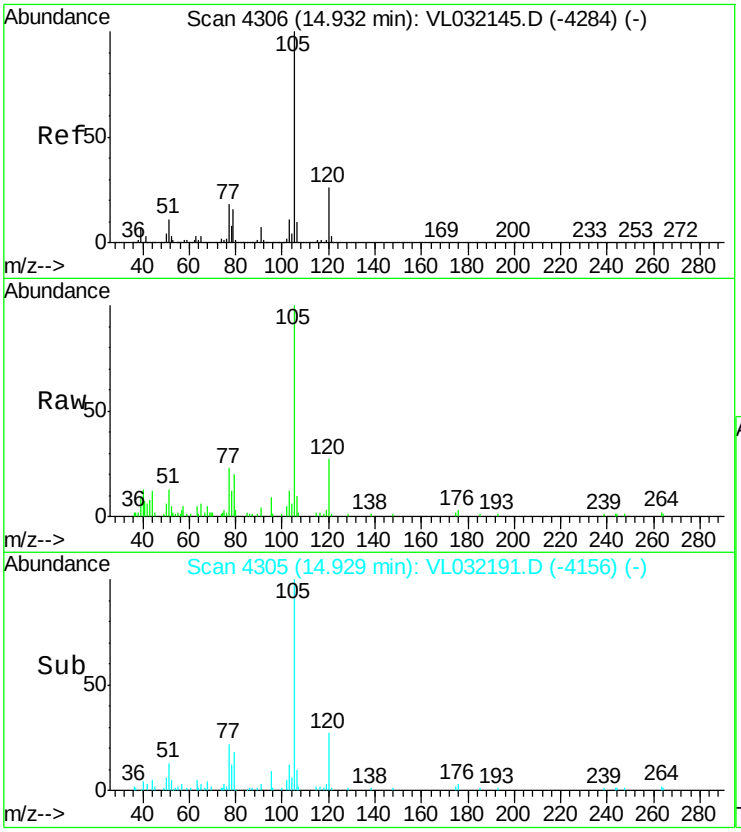




#61
Styrene
Concen: 0.134 ppbv
RT: 13.79 min Scan# 3950
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion:104 Resp: 46389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 60.1 | 37.9 | 56.9# |
| 103 | 49.0 | 36.6 | 55.0 |



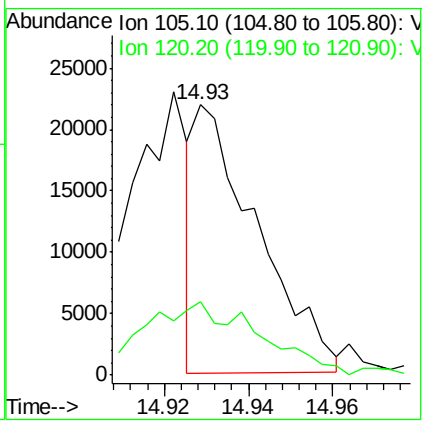


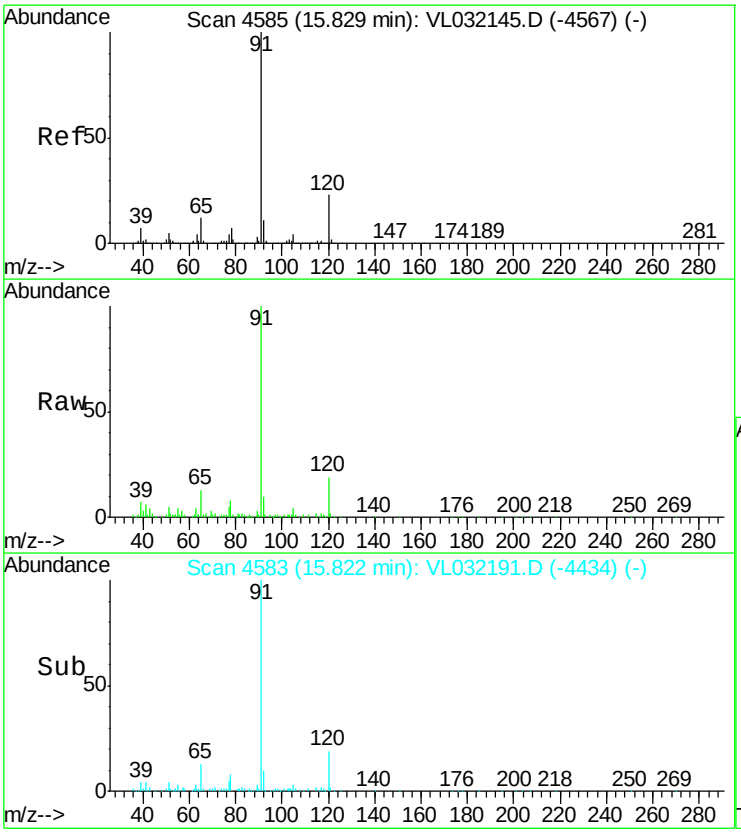

#62
Isopropylbenzene
Concen: 0.035 ppbv
RT: 14.93 min Scan# 4305
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion:105 Resp: 22439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 57.5 | 21.0 | 31.4# |

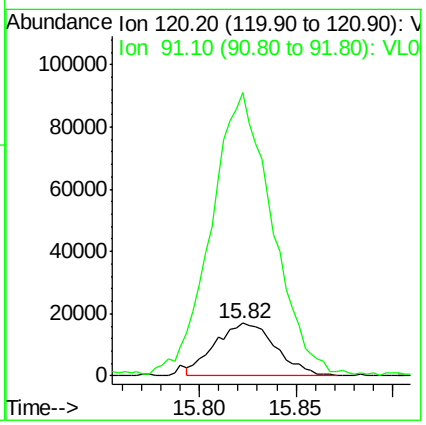


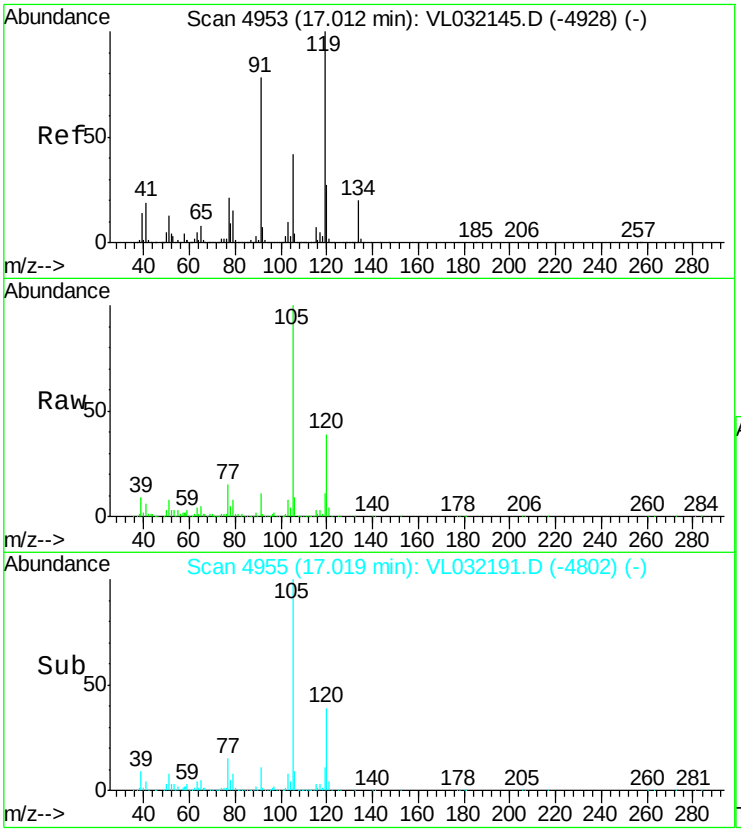




#64
n-propylbenzene
Concen: 0.219 ppbv
RT: 15.82 min Scan# 4583
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion:120 Resp: 36778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 120 | 100 | | |
| 91 | 536.0 | 357.4 | 536.0# |



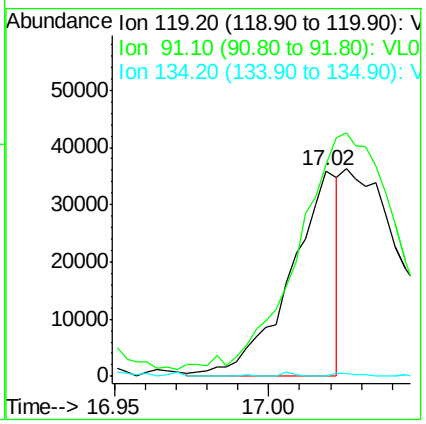


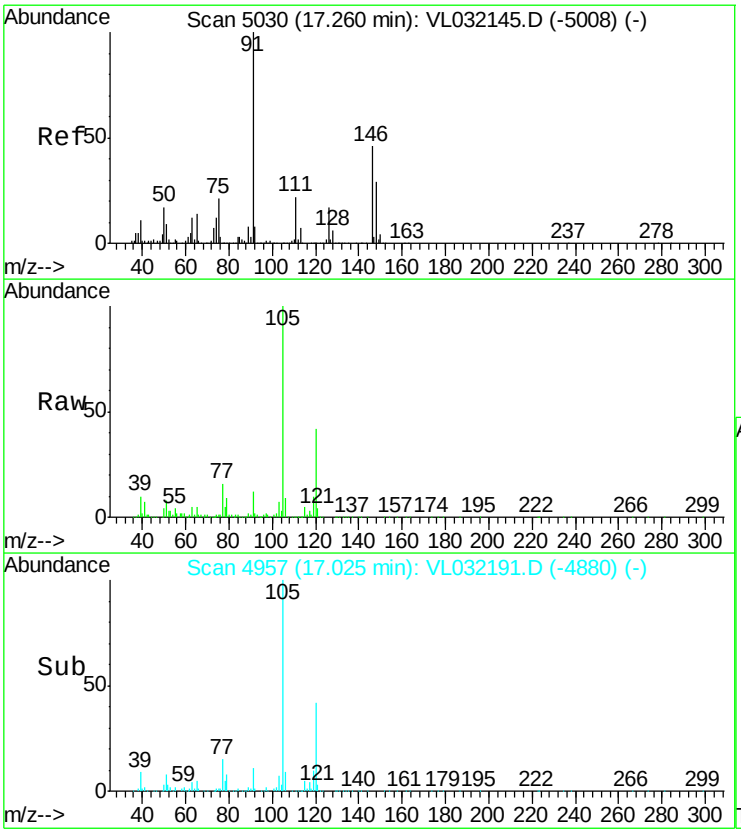

#65
tert-Butylbenzene
Concen: 0.068 ppbv
RT: 17.02 min Scan# 4955
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion:119 Resp: 38505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 249.8 | 62.2 | 93.2# |
| 134 | 0.0 | 16.2 | 24.2# |

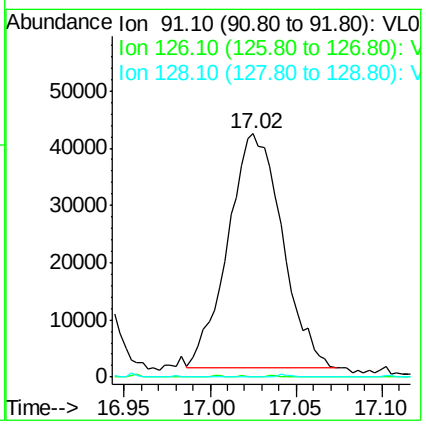


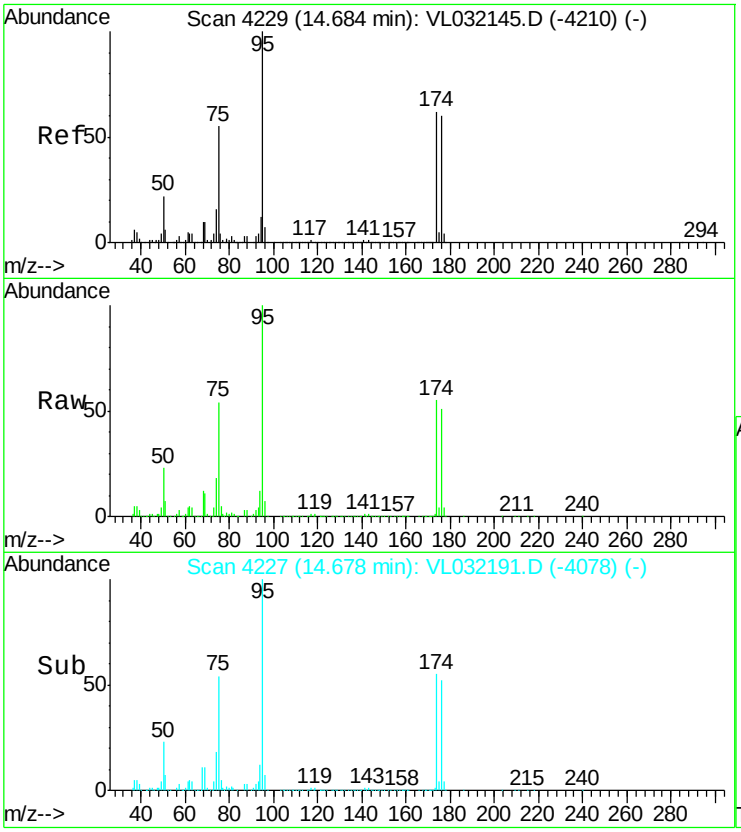




#66
Benzyl Chloride
Concen: 0.256 ppbv
RT: 17.02 min Scan# 4957
Delta R.T. -0.25 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion: 91 Resp: 90147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 0.0 | 15.7 | 23.5# |
| 128 | 0.2 | 5.2 | 7.8# |



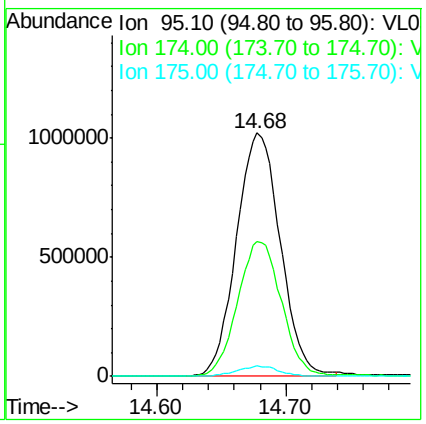


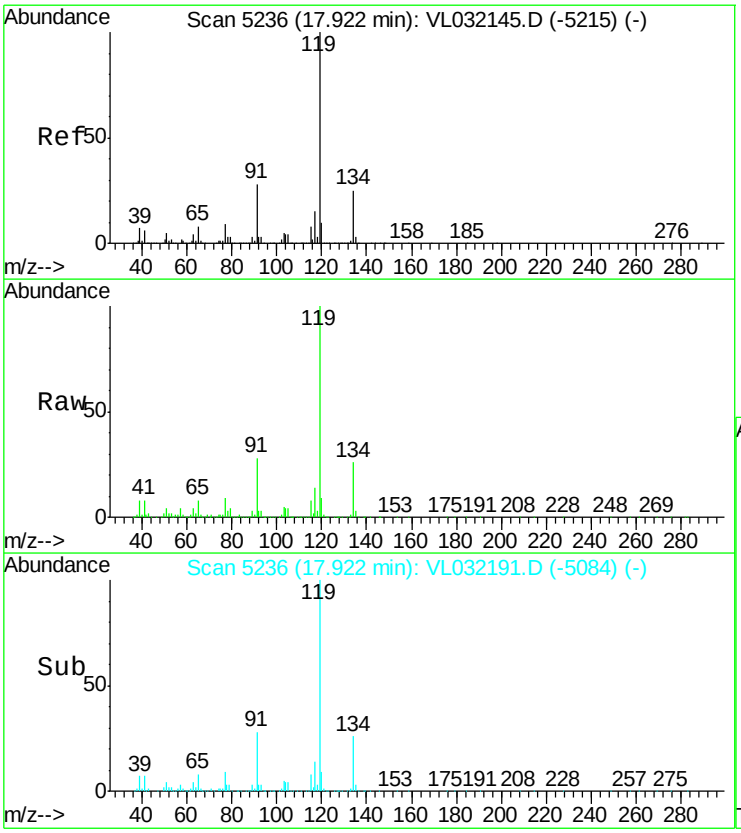

#68
1-Bromo-4-Fluorobenzene
Concen: 9.649 ppbv
RT: 14.68 min Scan# 4227
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 95 Resp: 2416176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 56.5 | 52.1 | 78.1 |
| 175 | 4.1 | 4.0 | 6.0 |

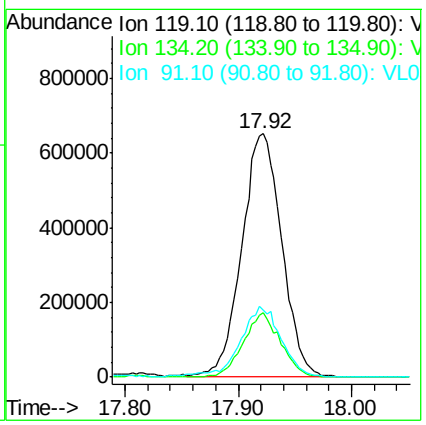


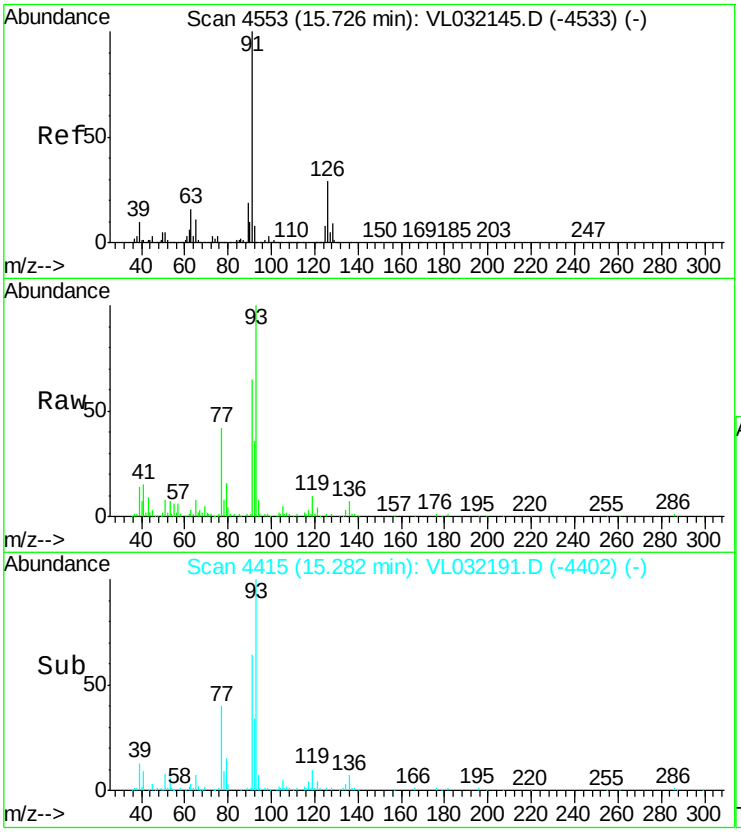




#69
p-Isopropyltoluene
Concen: 2.374 ppbv
RT: 17.92 min Scan# 5236
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion:119 Resp: 1590043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.6 | 20.7 | 31.1 |
| 91 | 29.7 | 21.8 | 32.8 |



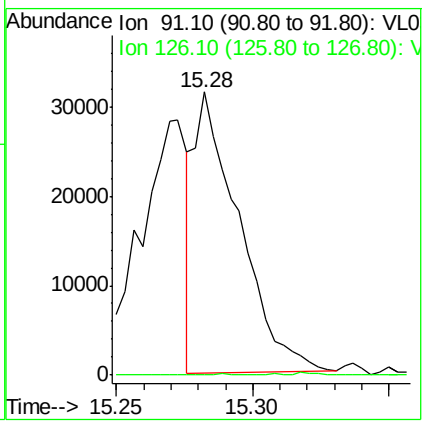


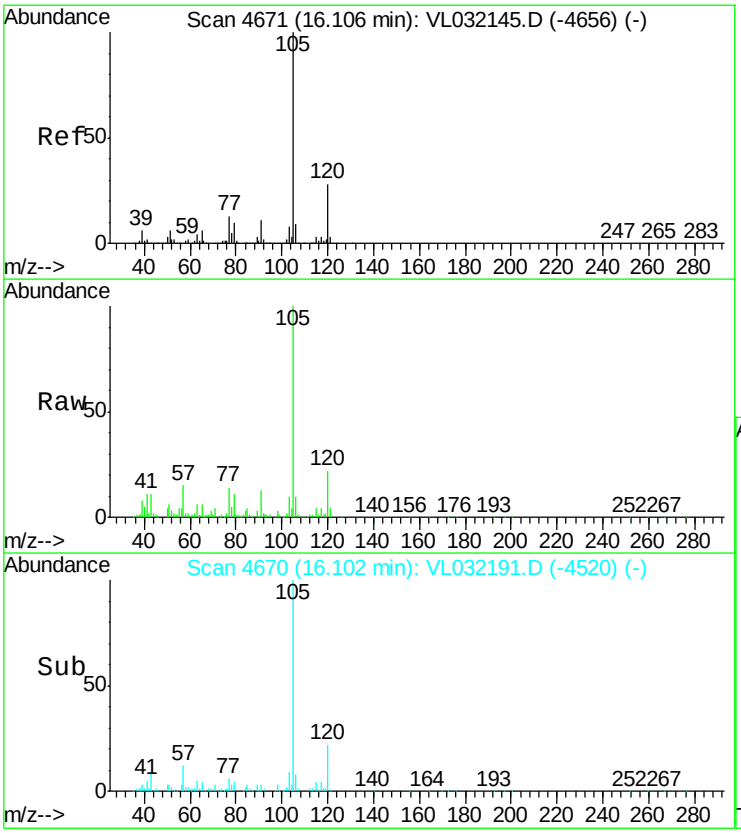

#71
2-Chlorotoluene
Concen: 0.071 ppbv
RT: 15.28 min Scan# 4415
Delta R.T. -0.46 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion: 91 Resp: 35427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 17.3 | 12.8 | 51.0 |

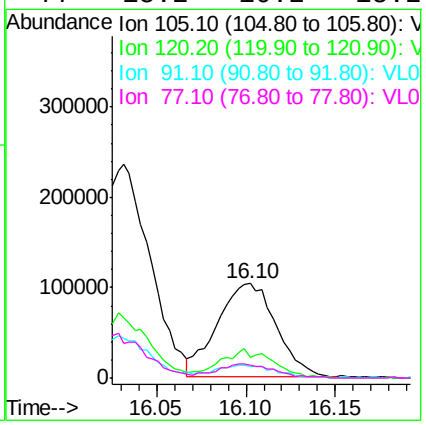


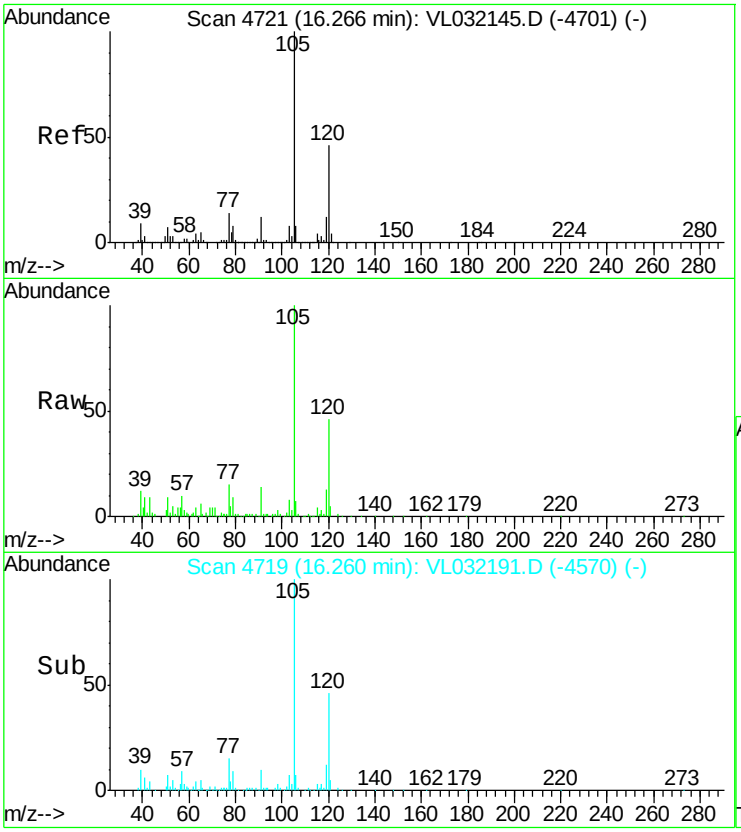




#72
4-Ethyltoluene
Concen: 0.435 ppbv
RT: 16.10 min Scan# 4670
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion:105 Resp: 237253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.3 | 24.3 | 36.5 |
| 91 | 14.9 | 9.4 | 14.0# |
| 77 | 15.2 | 10.2 | 15.2 |



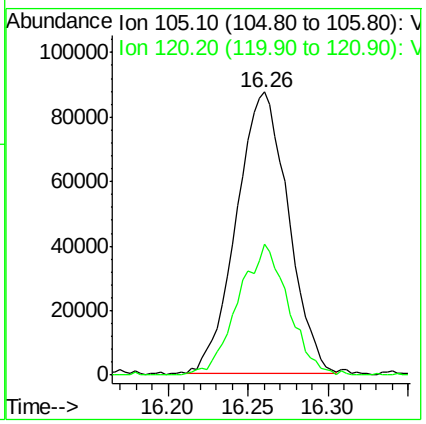


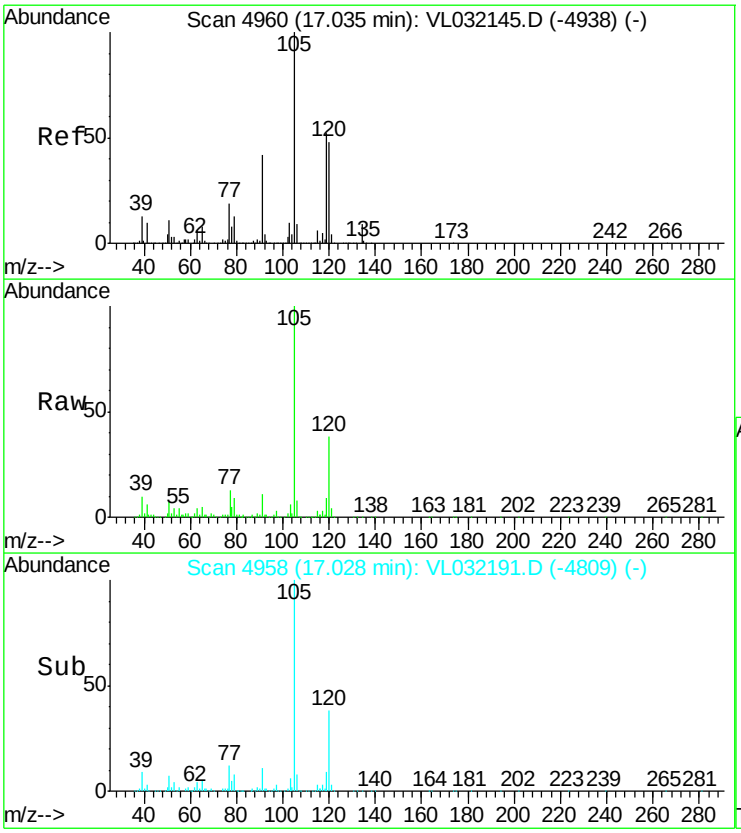

#73
1,3,5-Trimethylbenzene
Concen: 0.375 ppbv
RT: 16.26 min Scan# 4719
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion:105 Resp: 192788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.5 | 38.6 | 57.8 |

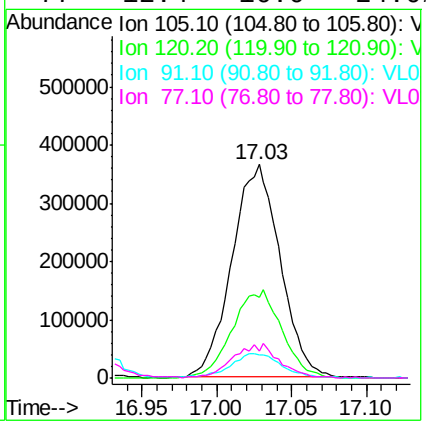


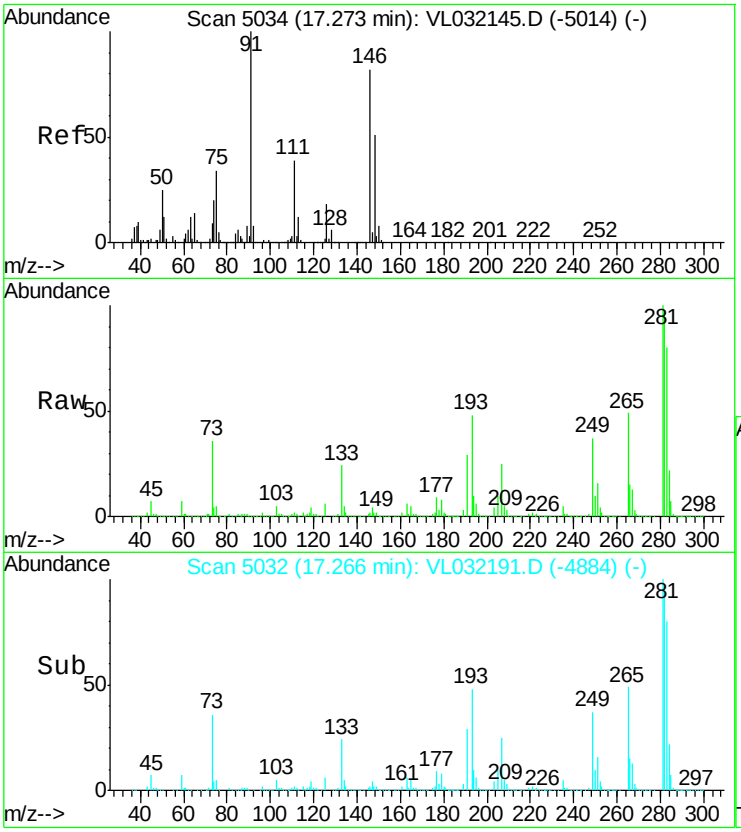




#74
1,2,4-Trimethylbenzene
Concen: 1.580 ppbv
RT: 17.03 min Scan# 4958
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion:105 Resp: 818725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 37.5 | 38.8 | 58.2# |
| 91 | 10.6 | 33.6 | 50.4# |
| 77 | 12.4 | 16.0 | 24.0# |



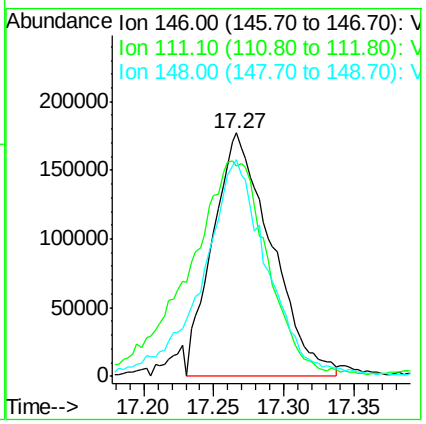


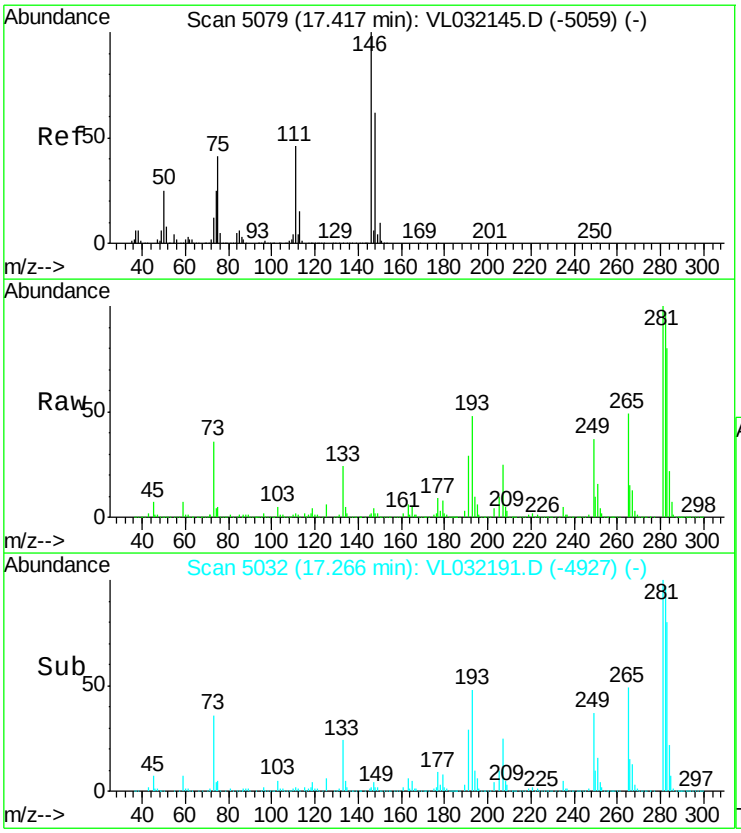

#75
1,3-Dichlorobenzene
Concen: 1.737 ppbv
RT: 17.27 min Scan# 5032
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion:146 Resp: 512110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 121.2 | 22.9 | 68.8# |
| 148 | 99.9 | 31.7 | 95.1# |

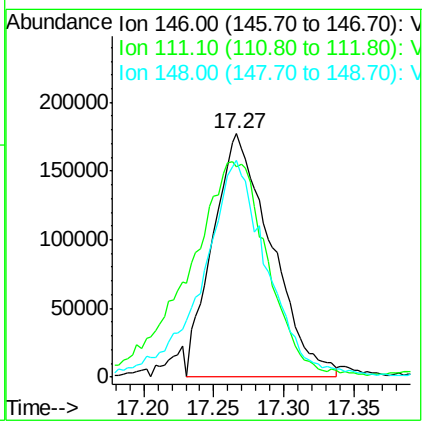


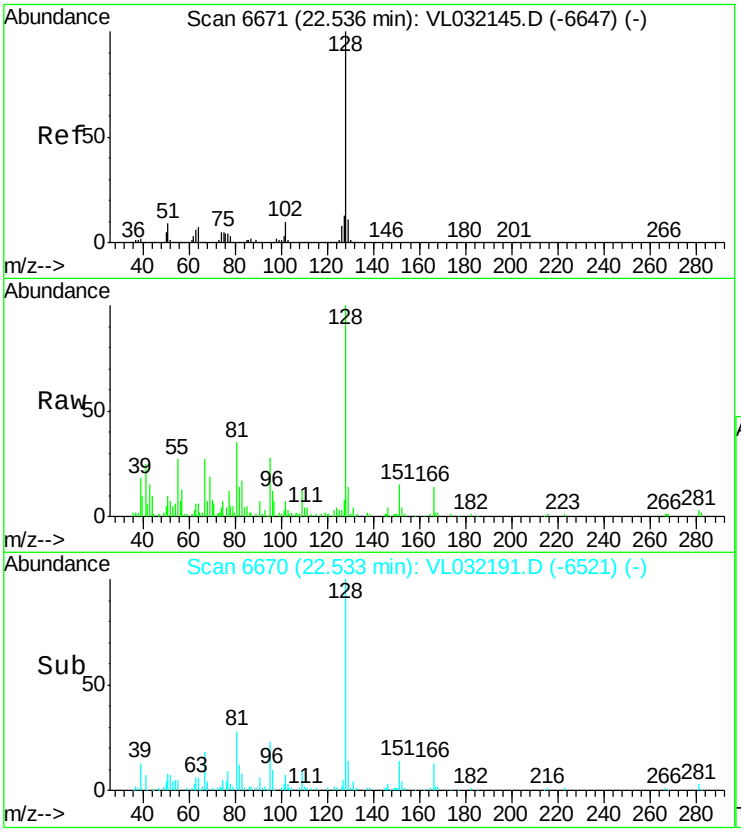




#76
1,4-Dichlorobenzene
Concen: 1.713 ppbv
RT: 17.27 min Scan# 5032
Delta R.T. -0.16 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion:146 Resp: 512110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 120.8 | 21.9 | 65.8# |
| 148 | 99.8 | 32.1 | 96.5# |



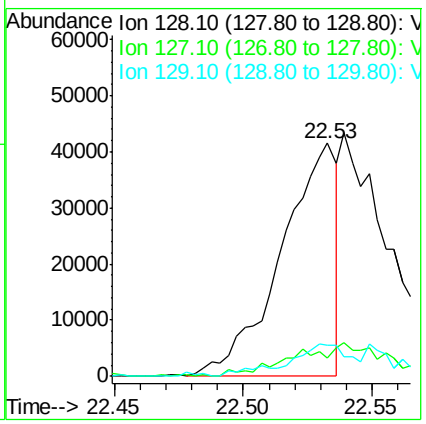


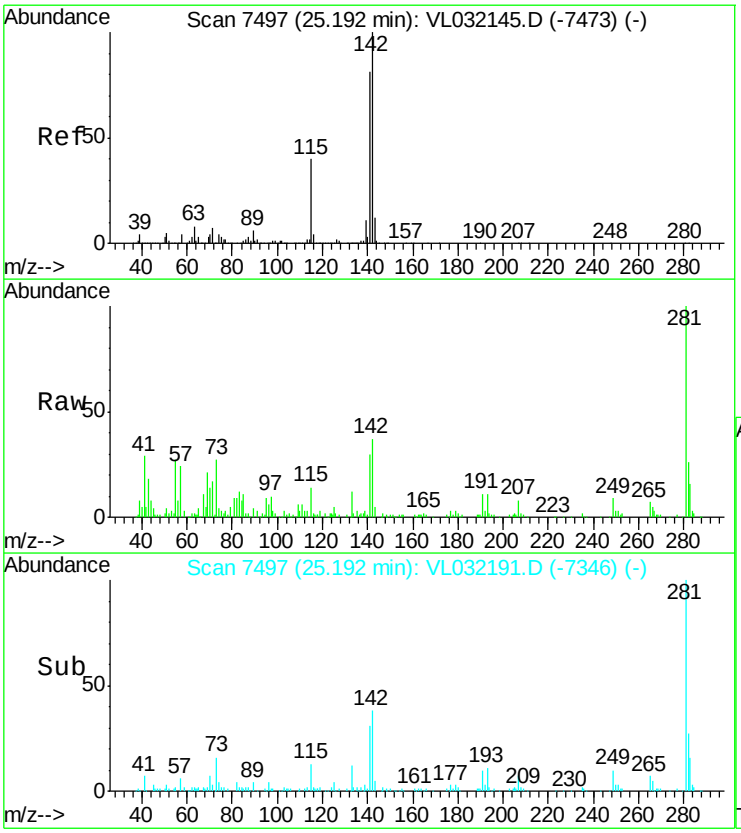

#79
Naphthalene
Concen: 0.131 ppbv
RT: 22.53 min Scan# 6670
Delta R.T. -0.02 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

**Instrument :**
MSVOA_L
**ClientSampleId :**
MID

Tgt Ion:128 Resp: 61592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 7.4 | 10.5 | 15.7# |
| 129 | 12.0 | 9.0 | 13.6 |




#80
Naphthalene,2-methyl-
Concen: 0.300 ppbv
RT: 25.19 min Scan# 7497
Delta R.T. -0.01 min
Lab File: VL032191.D
Acq: 2 Jul 2018 21:08

Tgt Ion:142 Resp: 51005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 141 | 81.7 | 65.8 | 98.6 |
| 115 | 48.6 | 29.4 | 44.0# |